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APPENDIX A
- MAPS -

FINAL

ENVIRONMENTAL IMPACT STATEMENT

NORTHWEST COLORADO COAL

U.S. DEPARTMENT OF THE INTERIOR
March 3, 1849

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10.	Geologic Map of Northwest Colorado.

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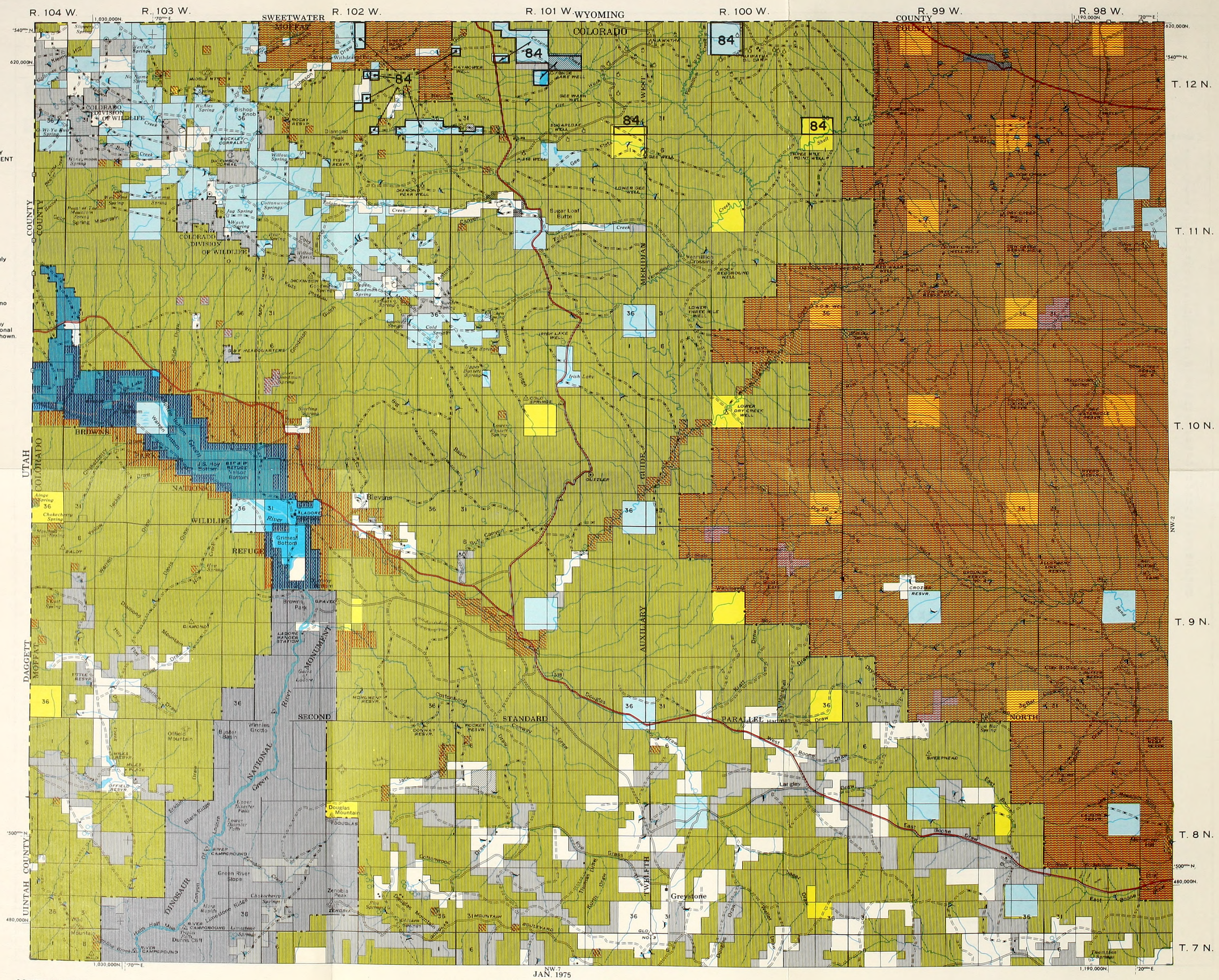
Lease-Minerals Management

1

U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

COLORADO

LADORE
(PLANIMETRIC)



MINERALS OWNED BY THE FEDERAL GOVERNMENT

Symbol	Mineral Rights
	All Minerals
	Coal Only
	Oil and Gas Only
	Oil, Gas, and Coal Only
	Other
	No symbol indicates no Federal minerals.

Note: Acquired and L.U. may include term or fractional interest for mineral shown.

SCALE 1:126,720
½ INCH = 1 MILE SERIES

COAL LEASE OVERPRINT SEPT 1975

NW-1

COLOR QUAD LEGEND

N.W. COLORADO COAL E.I.S. COAL LEASES

Leases and Lease Applications ————

BLM proposed coal leasing areas — — — —

Code numbers with a "C" prefix are competitive lease applications.
Code numbers with a "P" prefix are preferred right lease applications.
Lease numbers with a "C" or "D" prefix are federal leases.
Lease numbers with two part numbers (000/00) are state leases.

Code #	Firm (Lease Holder)	Lease #
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15	James C. Goodwin	C-0127926
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91	Consolidation Coal Co.	C-093715
92	Consolidation Coal Co.	C-093716
93	Commonwealth Coal Co.	D-044240
94	American Fuels Corp.	C-076713
95	W.R. Grace	C-22837
96	W.R. Grace	C-22838
97	W.R. Grace	C-22839
98	Phillip A. Jensen & K.W. Miller	C-4275
99	Ember Mining Co.	C-0126997
100	Ember Mining Co.	C-0126998
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102	Paul E. Riebold	C-028875
103	Reliable Coal Mining Co.	D-047201
104	L.C. Craig	C-0125366
105	Moon Lake Electric	C-8424
106	Moon Lake Electric	C-8425
107	Gordon Staley Coal	C-0126669
108	Moon Lake Electric	C-023703
109	Commonwealth Coal Co.	C-15846
110	Coal Fuels Corp.	C-22546
111	Moon Lake Electric	C-22654
112	Energy Fuels Corp.	C-22644
113	Halandras Brothers	C-22628
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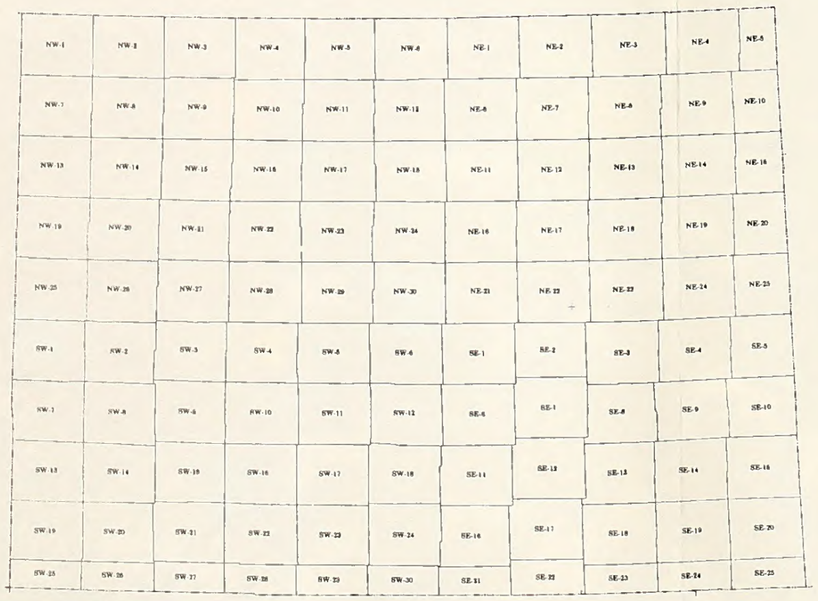
QUAD INDEX MAP

COLORADO



MAP SYMBOLS

Feature	Symbol	Feature	Symbol	Feature	Symbol	Feature	Symbol	Feature	Symbol
District Bdy		Road All Weather	Divided	Principal Access	Divided	Buildings		Towns and Cities	
Nat'l or State		Road Seasonal Use				Buildings (Abandoned)		River or Large Stream	
		Road "Jeep" Type "Primitive"		Road Interchange		BLM Office		Stream	
Continental Divide		Trail		Rest Area		School		Large Dam	
County		Railroad Double Track				Church		Reservoir or Retention Dam	
Land Grant		Railroad Single Track				Radio Installation		Lake or Pond	
Miscellaneous (Res., etc.)		Glacier		Levee or Dike		Fire Lookout (Primary)		Intermittent Lake or Pond	
Park (State, County or Local)		Road Bridge		Corral		Fire Lookout (Secondary)		Dry Lake or Pond	
Township and Range	Surveyed / Protracted	Railroad Bridge		Recreation Site		Fire Tool Cache		Marsh	
Section	Surveyed / Protracted	Foot Bridge		Tanks (label as to type)		Shelter		Spring	
Sec., Status Subdivision		Ferry		Oil or Gas Wells		Cliff Dwelling		Improved Spring	
Section Identification	6	Road Ford		Mine or Quarry		Ruins: Small / Large	Ruins / Ruins	Well	
State Plane Coordinates And Zone	1,500,000E	Trail Ford		US Mineral or Location Monument		Cemetery	CEM	Artesian Well	
Boundary Monument		Road Tunnel		Located Object (Labeled)		Sawmill		Windmill	
Route Marker Interstate		Railroad Tunnel		Triangulation Station	Dog	Airfield		Aqueduct Tunnel	
Route Marker U.S.				Bluffs or Cliffs				Ditch or Canal	
Route Marker State		Prominent Peak		Prominent Ridge		Gaging Station		Aqueduct	

LAND STATUS LEGEND

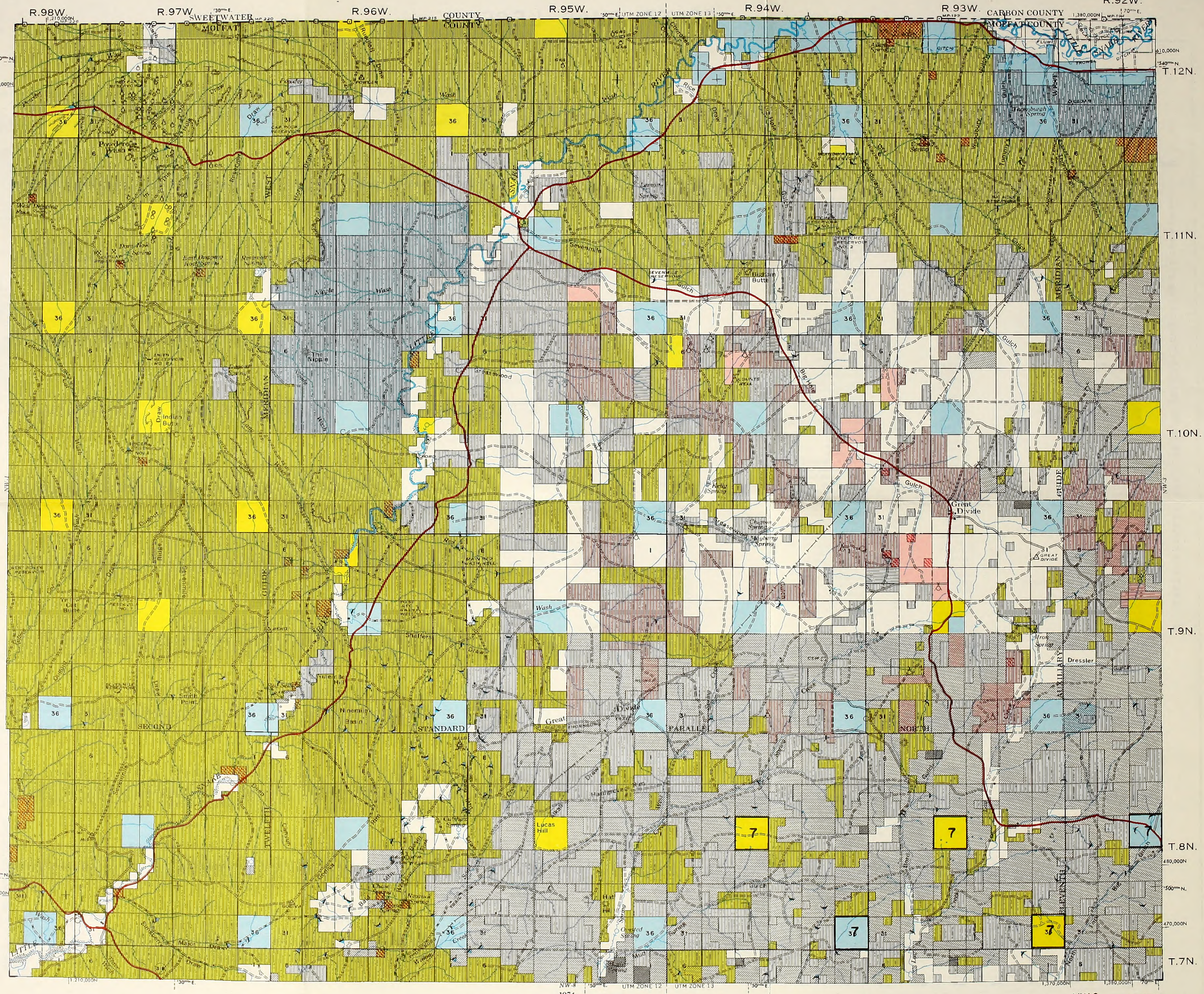
Description	Printing Color	Description	Printing Color
Public Domain (Including National Resource Lands)	Yellow	Patented	Blank
O & C Lands	Lt. Green	State Lands *	Dk. Blue
CBWR Coos Bay Wagon Road	Violet	Reclamation and Water Power Projects Withdrawal	Warm Red
National Forest	Green	Powersite Withdrawal	Warm Red
National Parks and Monuments	Purple	Federal Agency Protective Wdl.	Warm Red
Indian Lands or Reservation	Orange	AEC Withdrawal	Warm Red
Military Reservation and Military Withdrawal	Red	Public Water Reserve	Warm Red
Wildlife Refuge	Blue Green	O & C Lands Adm. by U. S. F. S.	Green
Bankhead - Jones L.U. Lands	Pink	Radio & Air Facilities	Green
		Miscellaneous	Green
		* State Wildlife, Parks And Outdoor Recreation Areas	Blue

U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

COLORADO

WYOMING

GREAT DIVIDE
½ inch = 1 mile series
(planimetric)



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scale 1:126,720

1974

COAL LEASE OVERPRINT SEPT 1975

NW-2

COLOR QUAD LEGEND

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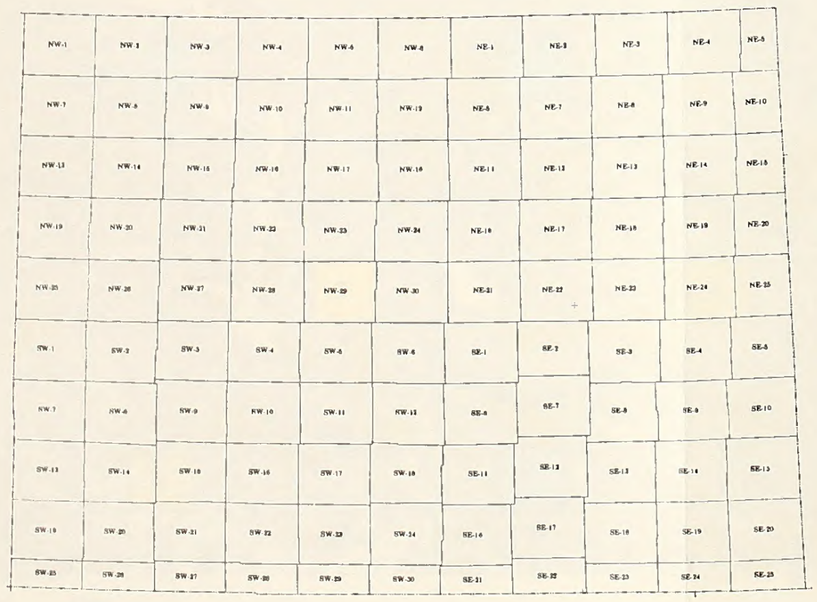

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Route Marker Interstate		Railroad Tunnel		Triangulation Station	Dog	Airfield		Aqueduct Tunnel	
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O & C Lands	Lt. Green	Reclamation and Water Power Projects Withdrawal	Warm Red
CBWR Coos Bay Wagon Road	Violet	Powersite Withdrawal	Warm Red
National Forest	Green	Federal Agency Protective Wdl.	Warm Red
National Parks and Monuments	Purple	AEC Withdrawal	Warm Red
Indian Lands or Reservation	Orange	Public Water Reserve	Warm Red
Military Reservation and Military Withdrawal	Red	O & C Lands Adm. by U. S. F. S.	Green
Wildlife Refuge	Blue Green	Radio & Air Facilities	Green
Bankhead - Jones L.U. Lands	Pink	Miscellaneous	Green
		* State Wildlife, Parks And Outdoor Recreation Areas	Blue

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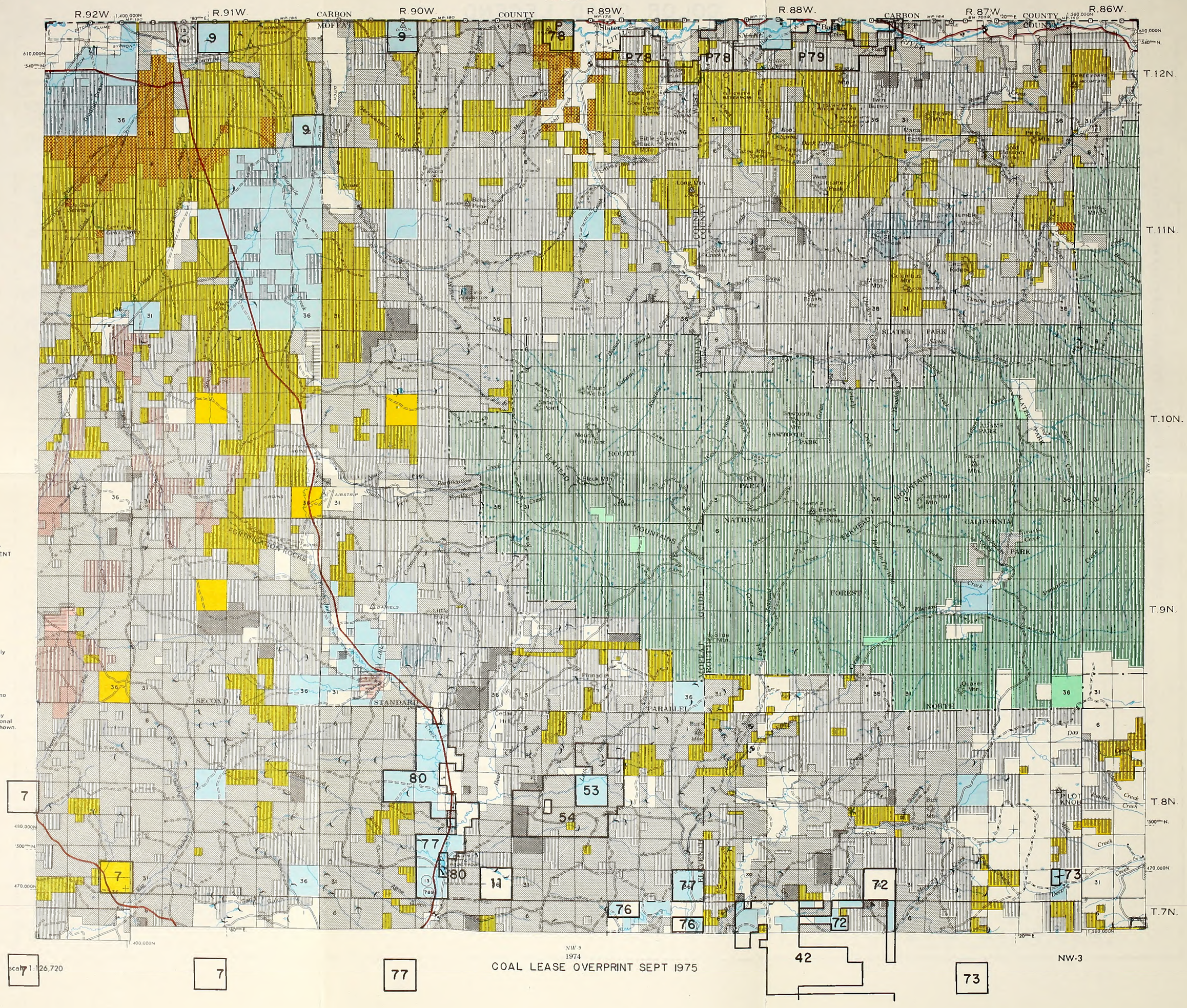

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87	Consolidation Coal Co.	C-1545
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89	Consolidation Coal Co.	C-093713
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92	Consolidation Coal Co.	C-093716
93	Commonwealth Coal Co.	D-044240
94	American Fuels Corp.	C-076713
95	W.R. Grace	C-22837
96	W.R. Grace	C-22838
97	W.R. Grace	C-22839
98	Phillip A. Jensen & K.W. Miller	C-4275
99	Ember Mining Co.	C-0126997
100	Ember Mining Co.	C-0126998
101	Ember Mining Co.	C-0126999
102	Paul E. Riebold	C-028875
103	Reliable Coal Mining Co.	D-047201
104	L.C. Craig	C-0125366
105	Moon Lake Electric	C-8424
106	Moon Lake Electric	C-8425
107	Gordon Staley Coal	C-0126669
108	Moon Lake Electric	C-023703
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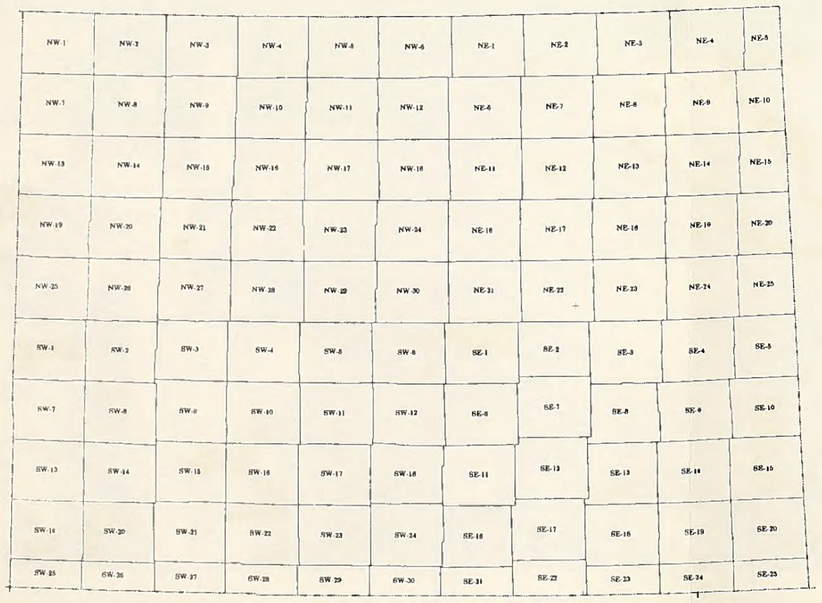
113	Halandras Brothers	C-22628
114	Energy Fuels	C-22677
115	Energy Fuels	C-22676
116	Empire Energy Corp.	C-14739
117	Peabody Coal Co.	C-22786

QUAD INDEX MAP

COLORADO



MAP SYMBOLS

Feature	Symbol	Feature	Symbol	Feature	Symbol	Feature	Symbol	Feature	Symbol
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Nat'l or State		Road Seasonal Use				Buildings (Abandoned)		River or Large Stream	
		Road "Jeep" Type "Primitive"		Road Interchange		BLM Office		Stream	
Continental Divide		Trail		Rest Area		School		Large Dam	
County		Railroad Double Track				Church		Reservoir or Retention Dam	
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Section Identification	6	Road Ford		Mine or Quarry		Ruins Small / Ruins Large	Ruins / Ruins	Well	
State Plane Coordinates And Zone	1,500,000E	Trail Ford		US Mineral or Location Monument		Cemetery	CEM	Artesian Well	
Boundary Monument		Road Tunnel		Located Object (Labeled)		Sawmill		Windmill	
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National Parks and Monuments	Purple	AEC Withdrawal	Warm Red
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Military Reservation and Military Withdrawal	Red	O & C Lands Adm. by U.S. F.S.	Green
Wildlife Refuge	Blue Green	Radio & Air Facilities	Green
Bonkhead - Jones L.U. Lands	Pink	Miscellaneous	Green
		* State Wildlife, Parks And Outdoor Recreation Areas	Blue

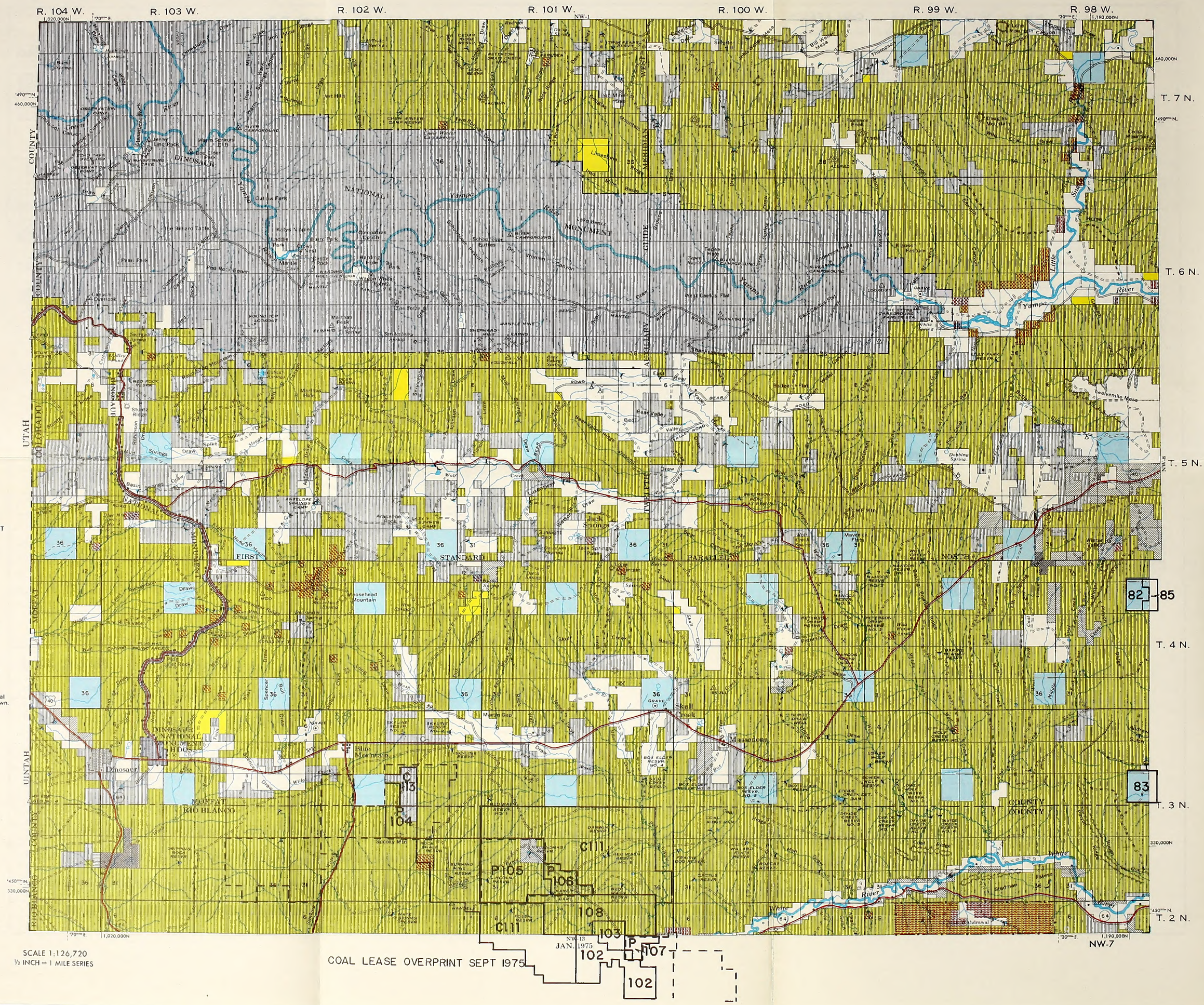
Lease-Minerals Management

2

U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

COLORADO

DINOSAUR
(PLANIMETRIC)



MINERALS OWNED BY THE FEDERAL GOVERNMENT

Symbol	Mineral Rights
	All Minerals
	Coal Only
	Oil and Gas Only
	Oil, Gas, and Coal Only
	Other
	No symbol indicates no Federal minerals.

Note: Acquired and L.U. may include term or fractional interest for mineral shown.

SCALE 1:126,720
½ INCH = 1 MILE SERIES

COAL LEASE OVERPRINT SEPT 1975

COLOR QUAD LEGEND

N.W. COLORADO COAL E.I.S. COAL LEASES

Leases and Lease Applications ————

BLM proposed coal leasing areas — — — —

Code numbers with a "C" prefix are competitive lease applications.
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14	James C. Goodwin	C-3440
15	James C. Goodwin	C-0127926
16	James C. Goodwin	C-0127927
17	James C. Goodwin	C-0127891
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19	Arnold Gilbert	286/13
20	W.R. Grace	D-034365
21	Gulf Oil (Pittsburgh & Midway Coal Mining Co.)	D-033327
22	Gulf Oil Corp.	D-041478
23	Gulf Oil Corp.	C-021501
24	Gulf Oil Corp.	D-053710
25	Joe Petranovich	D-052546
26	Routt Mining Corp.	C-0127592
27	Routt Mining Corp.	D-046544
28	Maneotis Sheep Co.	D-051376
29	Ruby Construction Co.	D-051698
30	Morgan Coal Co.	D-052547
31	Franklin Real Estate (Amer. Elec. Power)	C-012894
32	Morgan Coal Co.	C-081330
33	Morgan Coal Co.	C-0128433
34	Energy Fuels Corp.	C-20900
35	Morgan Coal Co.	C-16284
36	Peabody Coal (Seneca I)	C-088199
37	Peabody Coal (Seneca I)	C-086654
38	Peabody Coal (Seneca I)	C-0114093
39	Material Service Corp. (Seneca II)	C-081251
40	Material Service Corp. (Seneca II) 279/13	C-081258
41	United Electric Coal Co.	279/13
42	Mapco Inc.	392/13
43	Utah International, Inc.	C-079641
44	Utah International, Inc.	C-07519
45	Utah International Inc.	C-07518
46	Utah International, Inc.	C-3506
47	Utah International, Inc.	C-0126480
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49	Empire Energy Corp.	C-14738
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52	Ferne M. James	C-064416
53	Pittsburgh & Midway Coal Mining Co.	266/13
54	Peabody Coal Co.	C-0125957
55	Empire Energy	C-13134
56	Cossard, Inc.	C-16618
57	Utah International, Inc.	C-0123475
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60	Driftwood Oil Corp.: Peabody Coal (408/13)	384/13
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QUAD INDEX MAP

COLORADO

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Feature	Symbol	Feature	Symbol	Feature	Symbol	Feature	Symbol	Feature	Symbol
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Wildlife Refuge	Blue Green	Radio & Air Facilities	Green
Bankhead - Jones L.U. Lands	Pink	Miscellaneous	Green
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U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

COLORADO

MAYBELL
½ inch = 1 mile series
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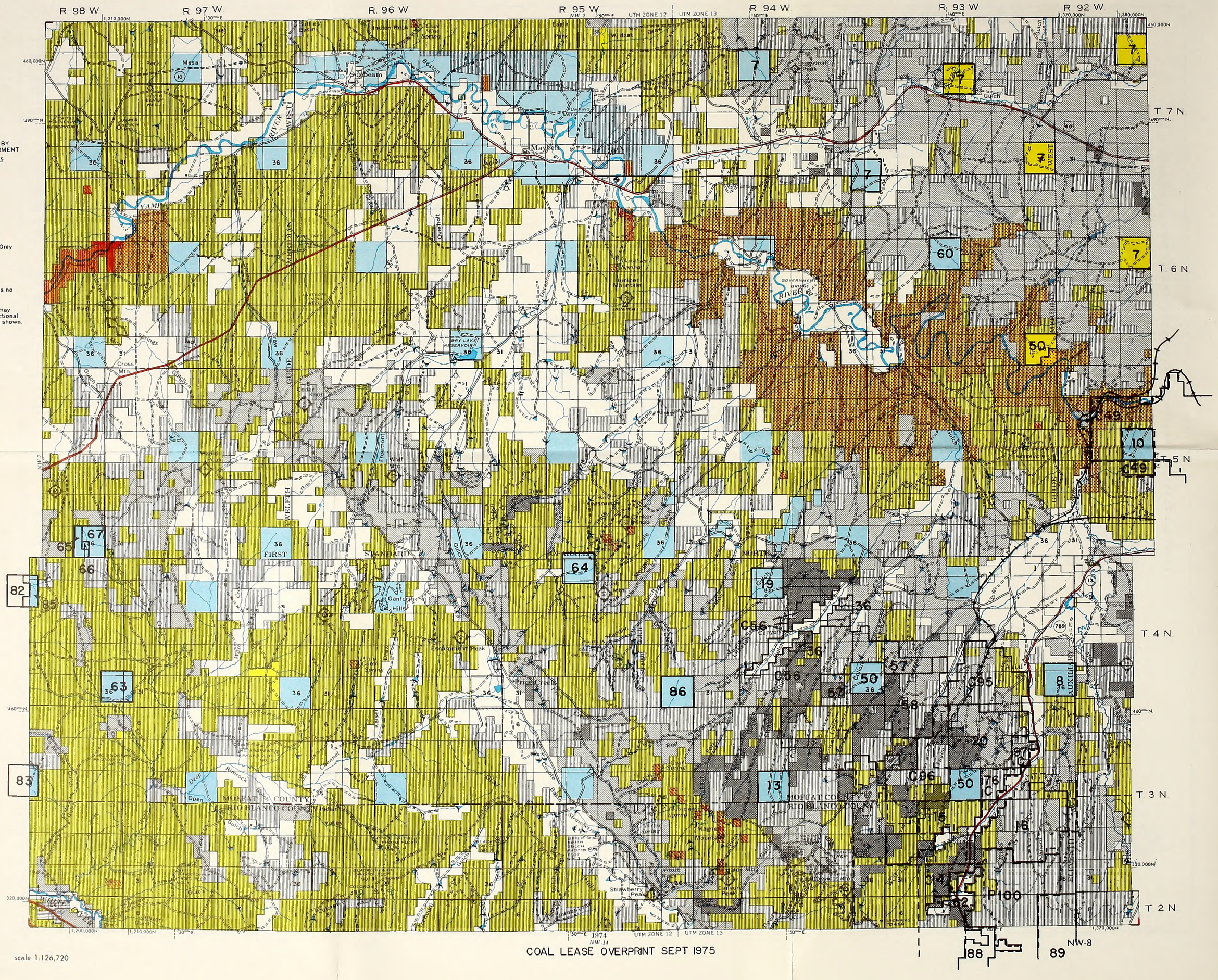

COAL LEASE OVERPRINT SEPT 1975

scale 1:126,720

COLOR QUAD LEGEND

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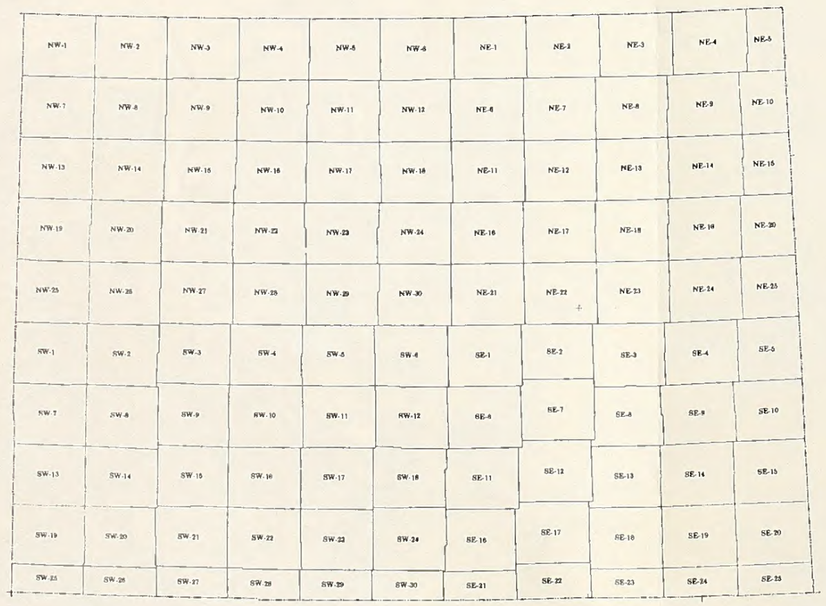
COLORADO



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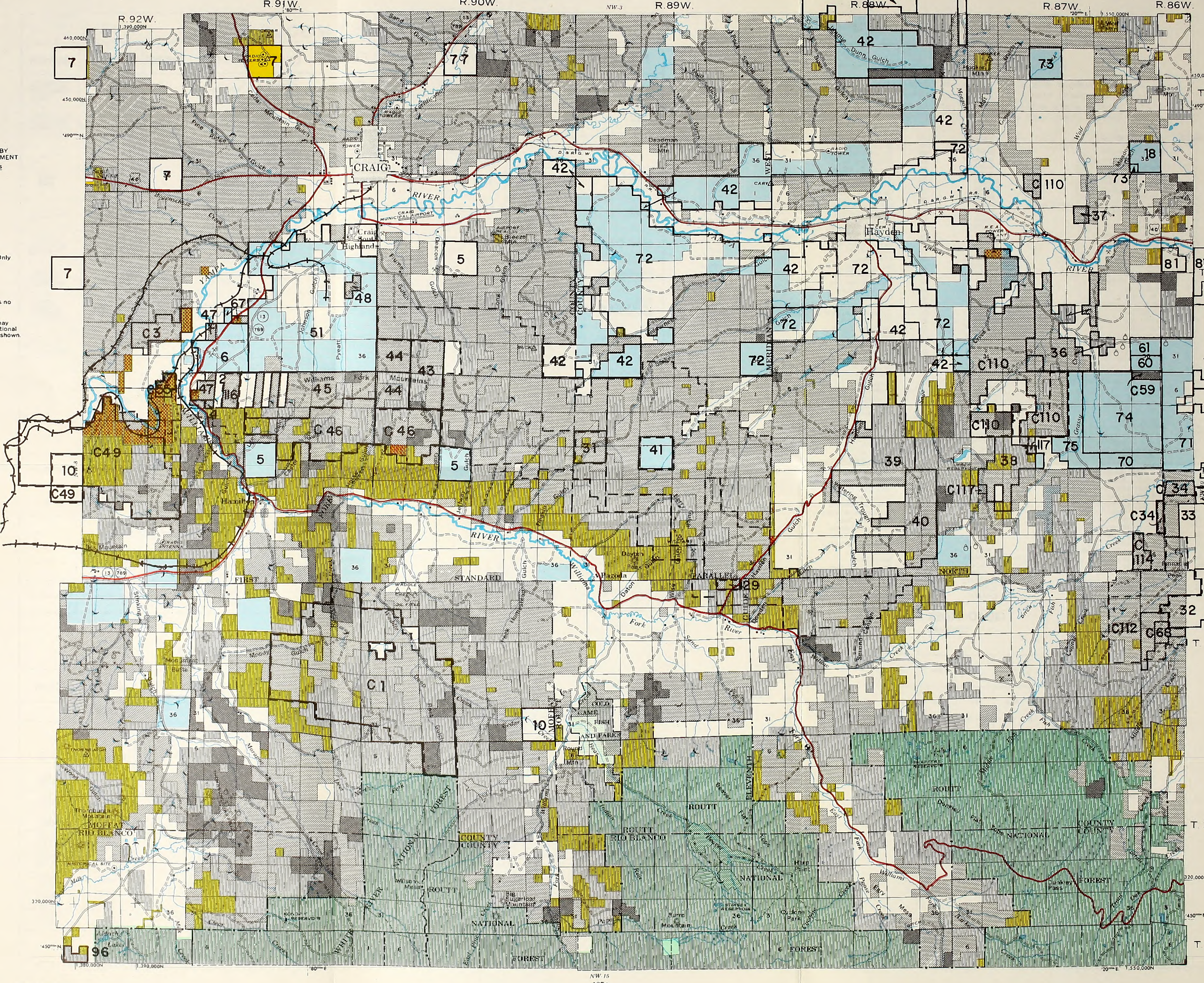

scale 1:126,720

NW-15
1974

COAL LEASE OVERPRINT SEPT 1975

NW-9

COLOR QUAD LEGEND

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5	Empire Energy Corp.	358/13
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7	Ark Land Co.	345/13
8	K. Parry: Ass'd. Paul S. Coupey (430/13)	365/13
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QUAD INDEX MAP

COLORADO

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Feature	Symbol	Feature	Symbol	Feature	Symbol	Feature	Symbol	Feature	Symbol
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		Road "Jeep" Type "Primitive"		Road Interchange		BLM Office		Stream	
Continental Divide		Trail		Rest Area		School		Large Dam	
County		Railroad Double Track				Church		Reservoir or Retention Dam	
Land Grant		Railroad Single Track				Radio Installation		Lake or Pond	
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Section Identification	6	Road Ford		Mine or Quarry		Ruins Small / Large	Ruins / Ruins	Well	
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Boundary Monument		Road Tunnel		Located Object (Labeled)		Sawmill		Windmill	
Route Marker Interstate		Railroad Tunnel		Triangulation Station	△ Dog	Airfield		Aqueduct Tunnel	
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LAND STATUS LEGEND

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O & C Lands	Lt. Green	Reclamation and Water Power Projects Withdrawal	Warm Red
CBWR Coos Bay Wagon Road	Violet		
National Forest	Green	Powersite Withdrawal	Warm Red
National Parks and Monuments	Purple	Federal Agency Protective Wdl.	Warm Red
		AEC Withdrawal	Warm Red
Indian Lands or Reservation	Orange	Public Water Reserve	Warm Red
Military Reservation and Military Withdrawal	Red	O & C Lands Adm. by U.S. F.S.	Green
Wildlife Refuge	Blue Green	Radio & Air Facilities	Green
Bankhead - Jones L.U. Lands	Pink	Miscellaneous	Green
		* State Wildlife, Parks And Outdoor Recreation Areas	Blue

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326

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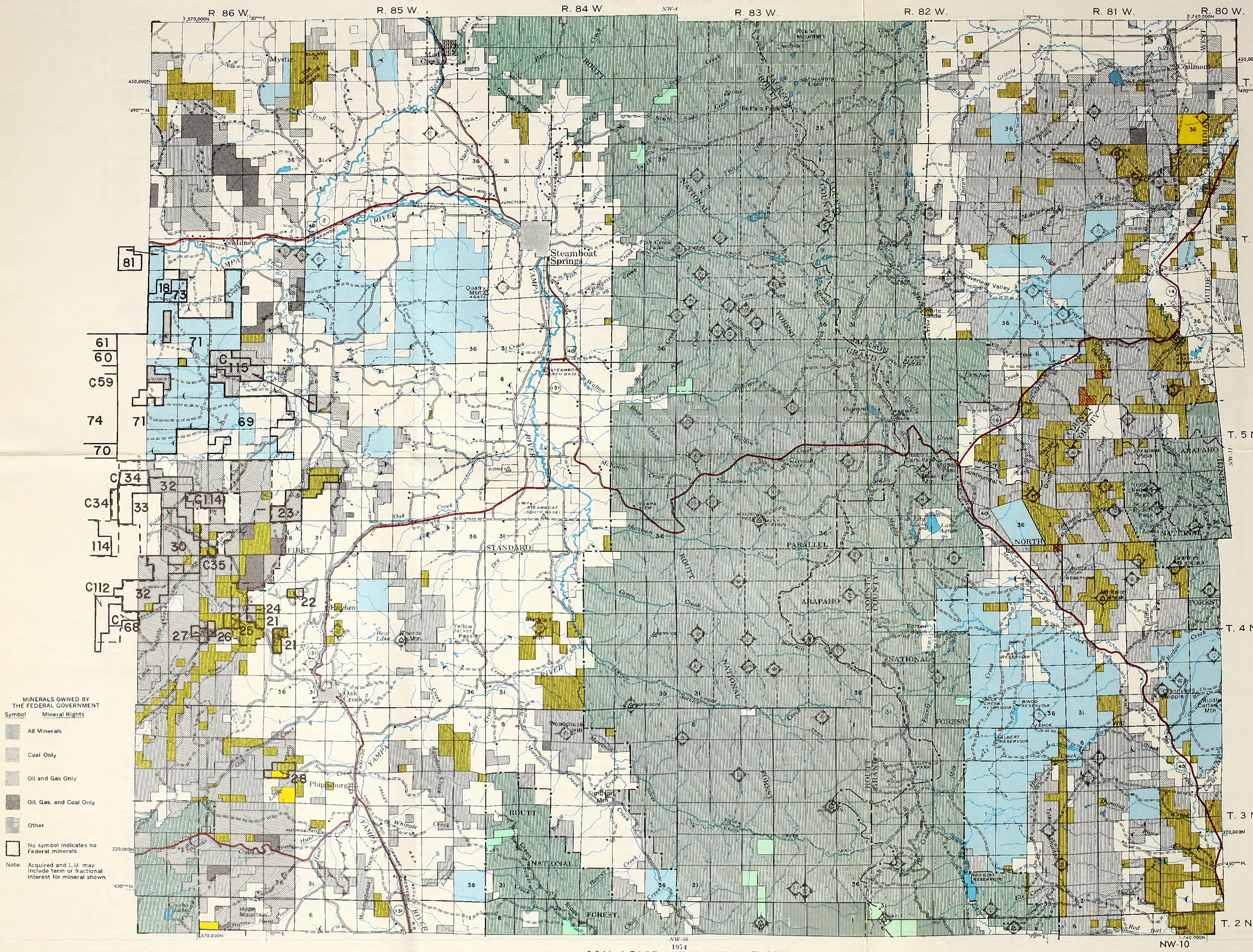
U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

COLORADO

STEAMBOAT SPRINGS
½ inch = 1 mile series
(planimetric)



1974
COAL LEASE OVERPRINT SEPT 1975

scale 1:126,720

COLOR QUAD LEGEND

N.W. COLORADO COAL E.I.S. COAL LEASES

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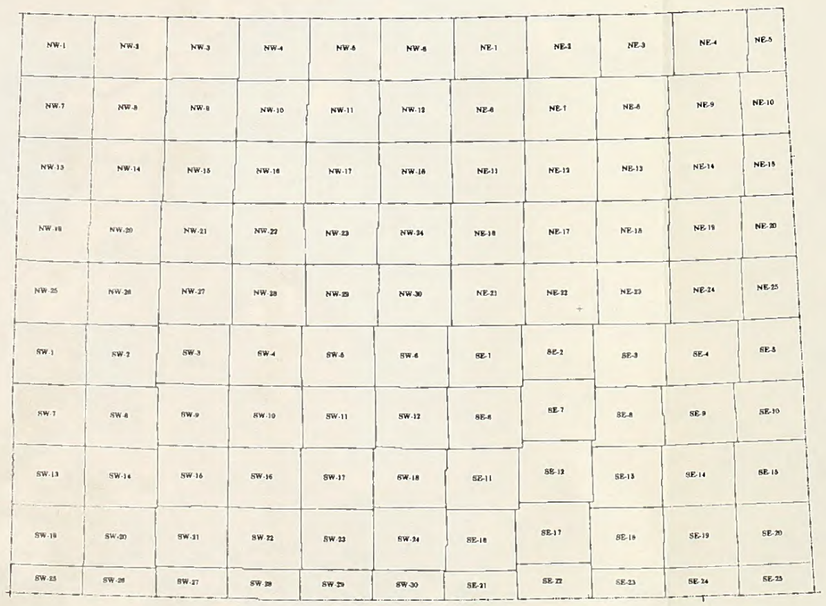
QUAD INDEX MAP

COLORADO



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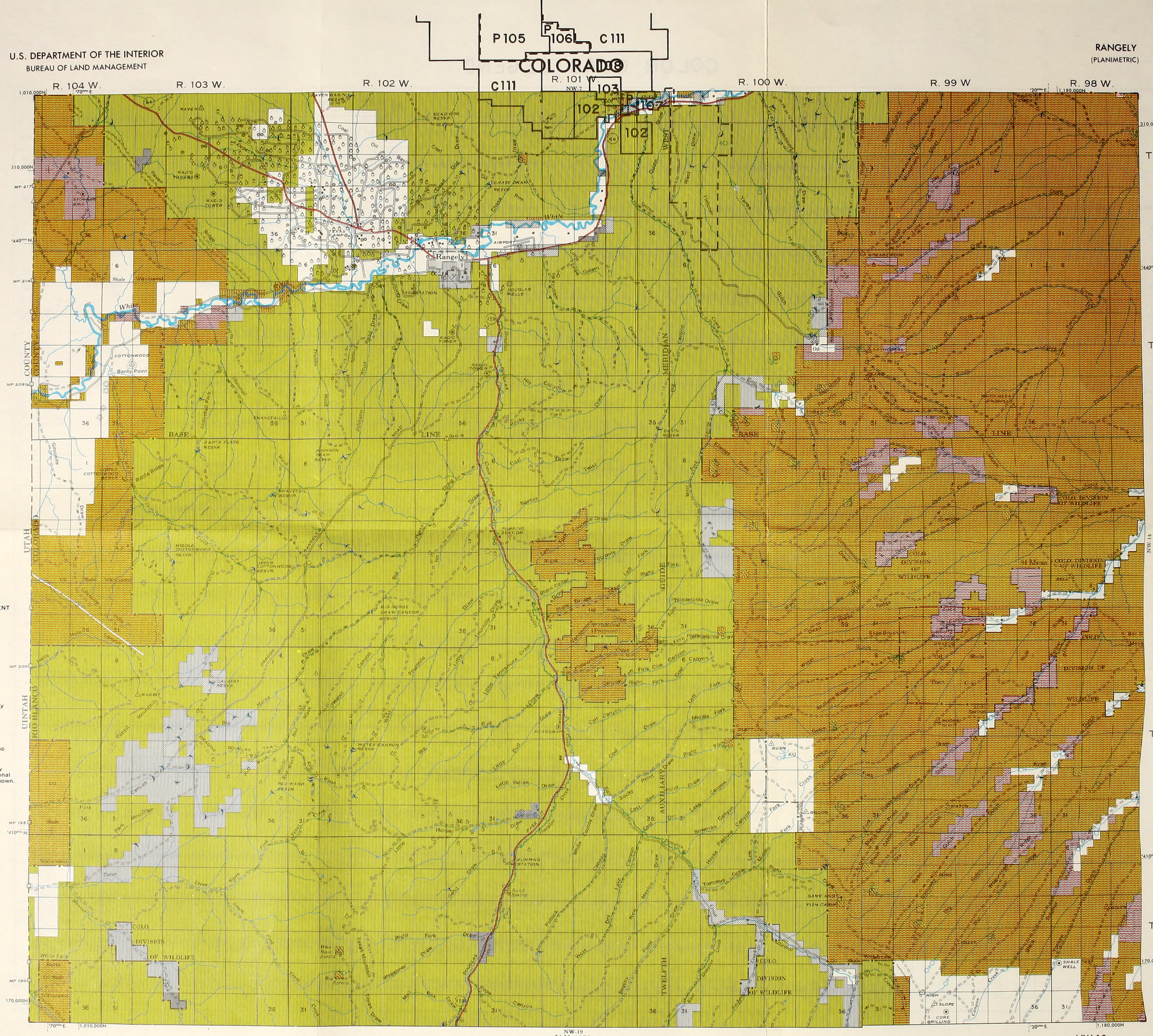
National Forest	Green	Federal Agency Protective Wdl.	Warm Red
National Parks and Monuments	Purple	AEC Withdrawal	Warm Red
Indian Lands or Reservation	Orange	Public Water Reserve	Warm Red
Military Reservation and Military Withdrawal	Red	O & C Lands Adm. by U.S. F.S.	Green
Wildlife Refuge	Blue Green	Radio & Air Facilities	Green
Bankhead - Jones L.U. Lands	Pink	Miscellaneous	Green
		* State Wildlife, Parks And Outdoor Recreation Areas	Blue

U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RANGELY
(PLANIMETRIC)



MINERALS OWNED BY THE FEDERAL GOVERNMENT

Symbol	Mineral Rights
	All Minerals
	Coal Only
	Oil and Gas Only
	Oil, Gas, and Coal Only
	Other
	No symbol indicates no Federal minerals.

Note: Acquired and L.U. may include term or fractional interest for mineral shown.

SCALE 1:126,720
½ INCH = 1 MILE SERIES

NW-19
JAN. 1975

COAL LEASE OVERPRINT SEPT 1975

NW-13

COLOR QUAD LEGEND

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		Road "Jeep" Type "Primitive"		Road Interchange		BLM Office		Stream	
Continental Divide		Trail		Rest Area		School		Large Dam	
County		Railroad Double Track				Church		Reservoir or Retention Dam	
Land Grant		Railroad Single Track				Radio Installation		Lake or Pond	
Miscellaneous (Res., etc.)		Glacier		Levee or Dike		Fire Lookout (Primary)		Intermittent Lake or Pond	
Park (State, County or Local)		Road Bridge		Corral		Fire Lookout (Secondary)		Dry Lake or Pond	
Township and Range	Surveyed / Protracted	Railroad Bridge		Recreation Site		Fire Tool Cache		Marsh	
Section	Surveyed / Protracted	Foot Bridge		Tanks-(label as to type)		Shelter		Spring	
Sec., Status Subdivision		Ferry		Oil or Gas Wells		Cliff Dwelling		Improved Spring	
Section Identification	6	Road Ford		Mine or Quarry		Ruins Small / Large	Ruins / Ruins	Well	
State Plane Coordinates And Zone	1,500,000E	Trail Ford		US Mineral or Location Monument		Cemetery	CEM	Artesian Well	
Boundary Monument		Road Tunnel		Located Object (Labeled)		Sawmill		Windmill	
Route Marker Interstate		Railroad Tunnel		Triangulation Station	Dog	Airfield		Aqueduct Tunnel	
Route Marker U.S.				Bluffs or Cliffs				Ditch or Canal	
Route Marker State		Prominent Peak		Prominent Ridge		Gaging Station		Aqueduct	

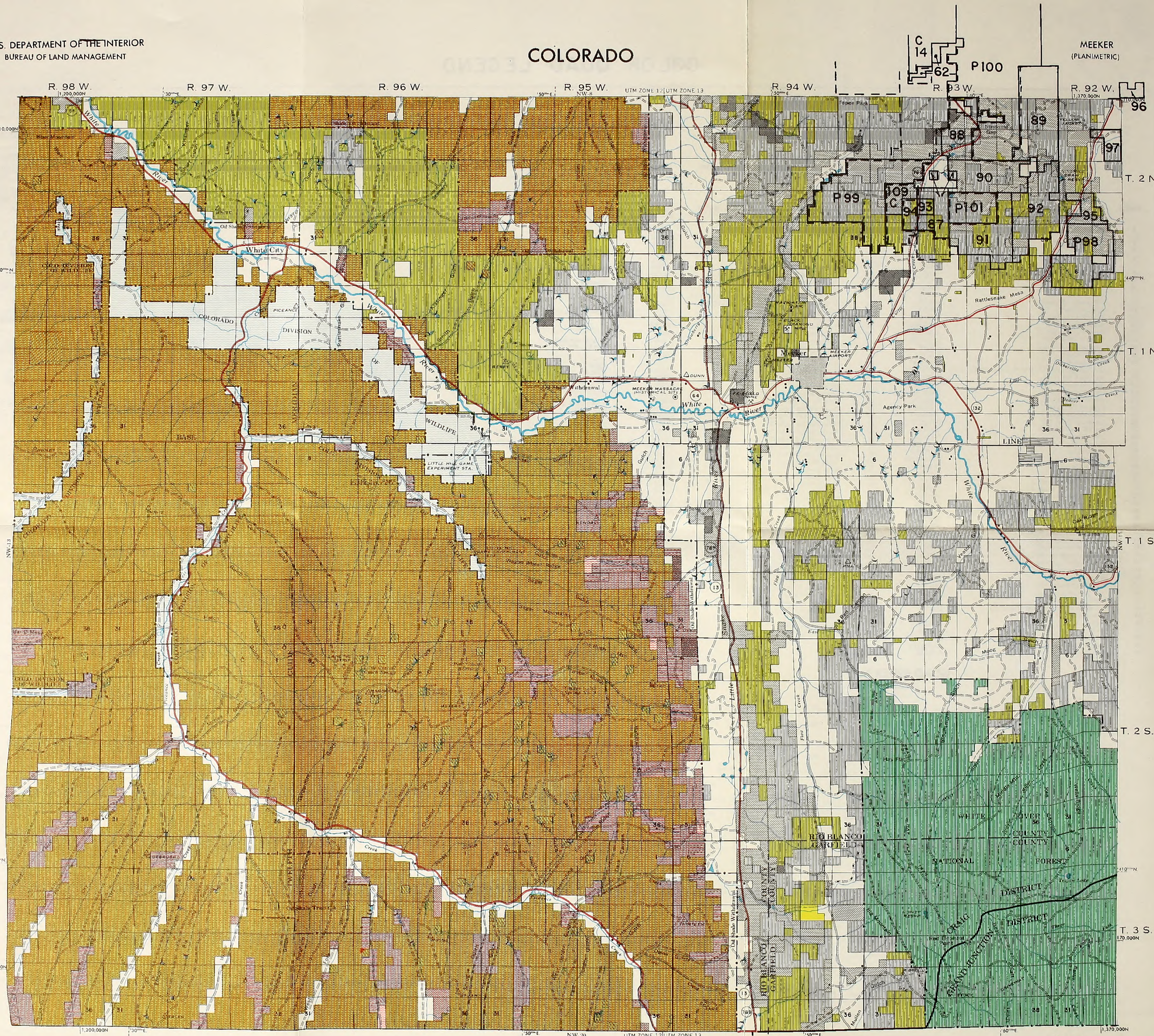
LAND STATUS LEGEND

Description	Printing Color	Description	Printing Color
Public Domain (Including National Resource Lands)	Yellow	Patented	Blank
		State Lands *	Dk. Blue
D & C Lands	Lt. Green	Reclamation and Water Power Projects Withdrawal	Warm Red
CBWR Coos Bay Wagon Road	Violet		
National Forest	Green	Powersite Withdrawal	Warm Red
		Federal Agency Protective Wdl.	Warm Red
National Parks and Monuments	Purple	AEC Withdrawal	Warm Red
Indian Lands or Reservation	Orange	Public Water Reserve	Warm Red
Military Reservation and Military Withdrawal	Red	D & C Lands Adm. by U. S. F. S.	Green
Wildlife Refuge	Blue Green	Radio & Air Facilities	Green
Bankhead - Jones L.U. Lands	Pink	Miscellaneous	Green
		* State Wildlife, Parks And Outdoor Recreation Areas	Blue

U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

COLORADO

MEEKER
(PLANIMETRIC)



MINERALS OWNED BY THE FEDERAL GOVERNMENT

Symbol	Mineral Rights
	All Minerals
	Coal Only
	Oil and Gas Only
	Oil, Gas, and Coal Only
	Other
	No symbol indicates no Federal minerals.

Note: Acquired and L.U. may include term or fractional interest for mineral shown.

SCALE 1:126,720
½ INCH = 1 MILE SERIES

NW-20
1974

COAL LEASE OVERPRINT SEPT 1975

NW-14

COLOR QUAD LEGEND

N.W. COLORADO COAL E.I.S. COAL LEASES

Leases and Lease Applications ————

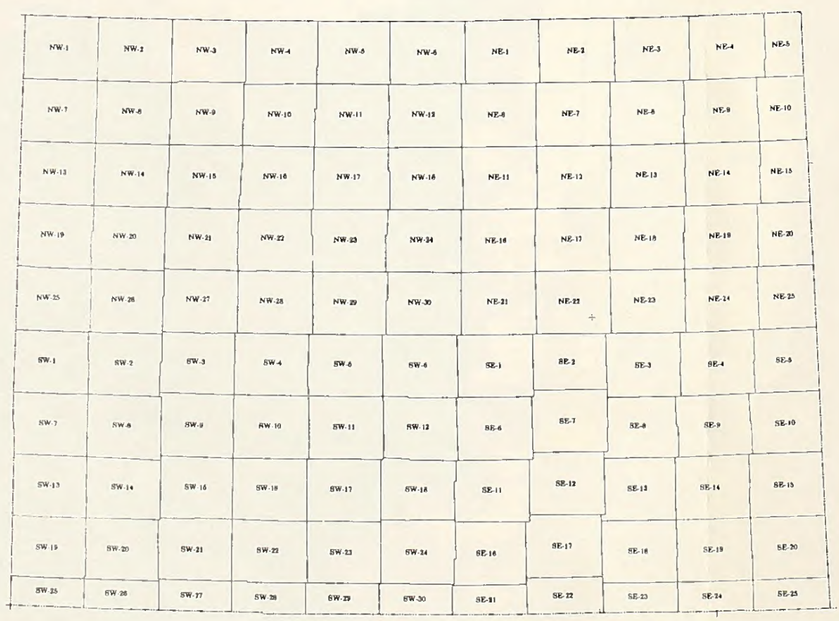
BLM proposed coal leasing areas — — — —

Code numbers with a "C" prefix are competitive lease applications.
Code numbers with a "P" prefix are preferred right lease applications.
Lease numbers with a "C" or "D" prefix are federal leases.
Lease numbers with two part numbers (000/00) are state leases.

Code #	Firm (Lease Holder)	Lease #
1	Empire Energy Corp.	C-14737
2	Empire Energy Corp.	D-056298
3	Empire Energy Corp.	C-21981
4	Empire Energy Corp.	C-0127865
5	Empire Energy Corp.	358/13
6	Empire Energy Corp.	366/13
7	Ark Land Co.	345/13
8	K. Parry: Ass'd. Paul S. Coupey (430/13)	365/13
9	Kemmerer Coal Co.	370/13
10	John Wanner	285/13
11	Peabody Coal Co.	307/13
12	Charles C. Hughes	402/13
13	Arnold Gilbert	299/13
14	James C. Goodwin	C-3440
15	James C. Goodwin	C-0127926
16	James C. Goodwin	C-0127927
17	James C. Goodwin	C-0127891
18	Thomas C. Woodward	383/13
19	Arnold Gilbert	286/13
20	W.R. Grace	D-034365
21	Gulf Oil (Pittsburgh & Midway Coal Mining Co.)	D-033327
22	Gulf Oil Corp.	D-041478
23	Gulf Oil Corp.	C-021501
24	Gulf Oil Corp.	D-053710
25	Joe Petranovich	D-052546
26	Routt Mining Corp.	C-0127592
27	Routt Mining Corp.	D-046544
28	Maneotis Sheep Co.	D-051376
29	Ruby Construction Co.	D-051698
30	Morgan Coal Co.	D-052547
31	Franklin Real Estate (Amer. Elec. Power)	C-012894
32	Morgan Coal Co.	C-081330
33	Morgan Coal Co.	C-0128433
34	Energy Fuels Corp.	C-20900
35	Morgan Coal Co.	C-16284
36	Peabody Coal (Seneca I)	C-088199
37	Peabody Coal (Seneca I)	C-086654
38	Peabody Coal (Seneca I)	C-0114093
39	Material Service Corp. (Seneca II)	C-081251
40	Material Service Corp. (Seneca II) 279/13	C-081258
41	United Electric Coal Co.	279/13
42	Mapco Inc.	392/13
43	Utah International, Inc.	C-079641
44	Utah International, Inc.	C-07519
45	Utah International Inc.	C-07518
46	Utah International, Inc.	C-3506
47	Utah International, Inc.	C-0126480
48	Utah International, Inc.	C-813
49	Empire Energy Corp.	C-14738
50	Utah International, Inc.	257/13
51	Utah International, Inc.	206/13
52	Ferne M. James	C-064416
53	Pittsburgh & Midway Coal Mining Co.	266/13
54	Peabody Coal Co.	C-0125957
55	Empire Energy	C-13134
56	Cossard, Inc.	C-16618
57	Utah International, Inc.	C-0123475
58	Utah International, Inc.	C-0123476
59	Peabody Coal Co.	C-19885
60	Driftwood Oil Corp.: Peabody Coal (408/13)	384/13
61	Grassy Creek Coal Co.	323/13
62	Consolidated Coal Co.	C-245
63	George Brennan, Jr.	324/13
64	Charles C. Hughes	401/13
65	George Brennan, Jr.	325/13
66	George Brennan, Jr.	397/13
67	George Brennan, Jr.	333/13
68	Energy Fuels Corp. (Morgan)	C-9968
69	Pittsburgh & Midway Coal Mining Co.	265/13
70	Peabody Coal Co.	306/13
71	Mapco, Inc.	371/13
72	Page T. Jenkins: Ass'd. J. McDonough (379/13)	393/13
73	K. Parry: Ass'd. Paul S. Coupey (429/13)	364/13
74	Morgan Coal Co.	235/13
75	Peabody Coal	305/13
76	W.R. Grace	C-22836
77	Sunflower Corp.	394/13
78	Kemmerer Coal Co.	C-3606
79	Kemmerer Coal Co.	C-3605
80	Kerr-McGee Corp.	396/13
81	Victor P. Stabio	424/13
82	Robert H. Gleason & L.C. Craig	409/13
83	Robert H. Gleason & L.C. Craig	410/13
84	Erlon E. Nowell	432/13
85	George Brennan, Jr.	332/13
86	Superior Oil Corp.	331/13
87	Consolidation Coal Co.	C-1545
88	Consolidation Coal Co.	C-1546
89	Consolidation Coal Co.	C-093713
90	Consolidation Coal Co.	C-093714
91	Consolidation Coal Co.	C-093715
92	Consolidation Coal Co.	C-093716
93	Commonwealth Coal Co.	D-044240
94	American Fuels Corp.	C-076713
95	W.R. Grace	C-22837
96	W.R. Grace	C-22838
97	W.R. Grace	C-22839
98	Phillip A. Jensen & K.W. Miller	C-4275
99	Ember Mining Co.	C-0126997
100	Ember Mining Co.	C-0126998
101	Ember Mining Co.	C-0126999
102	Paul E. Riebold	C-028875
103	Reliable Coal Mining Co.	D-047201
104	L.C. Craig	C-0125366
105	Moon Lake Electric	C-8424
106	Moon Lake Electric	C-8425
107	Cordon Staley Coal	C-0126669
108	Moon Lake Electric	C-023703
109	Commonwealth Coal Co.	C-15846
110	Coal Fuels Corp.	C-22546
111	Moon Lake Electric	C-22654
112	Energy Fuels Corp.	C-22644
113	Halandras Brothers	C-22628
114	Energy Fuels	C-22677
115	Energy Fuels	C-22676
116	Empire Energy Corp.	C-14739
117	Peabody Coal Co.	C-22786

QUAD INDEX MAP

COLORADO



MAP SYMBOLS

Feature	Symbol	Feature	Symbol	Feature	Symbol	Feature	Symbol	Feature	Symbol
District Bdy		Road All Weather	Divided	Principal Access	Divided	Buildings		Towns and Cities	
Nat'l or State		Road Seasonal Use				Buildings (Abandoned)		River or Large Stream	
		Road "Jeep" Type "Primitive"		Road Interchange		BLM Office		Stream	
Continental Divide		Trail		Rest Area		School		Large Dam	
County		Railroad Double Track				Church		Reservoir or Retention Dam	
Land Grant		Railroad Single Track				Radio Installation		Lake or Pond	
Miscellaneous (Res., etc.)		Glacier		Levee or Dike		Fire Lookout (Primary)		Intermittent Lake or Pond	
Park (State, County or Local)		Road Bridge		Corral		Fire Lookout (Secondary)		Dry Lake or Pond	
Township and Range	Surveyed / Protracted	Railroad Bridge		Recreation Site		Fire Tool Cache		Marsh	
Section	Surveyed / Protracted	Foot Bridge		Tanks-(label as to type)		Shelter		Spring	
Sec., Status Subdivision		Ferry		Oil or Gas Wells		Cliff Dwelling		Improved Spring	
Section Identification	6	Road Ford		Mine or Quarry		Ruins Small / Large	Ruins / Ruins	Well	
State Plane Coordinates And Zone	1,500,000E	Trail Ford		US Mineral or Location Monument	▲	Cemetery	CEM	Artesian Well	
Boundary Monument		Road Tunnel		Located Object (Labeled)		Sawmill	▲	Windmill	
Route Marker Interstate		Railroad Tunnel		Triangulation Station	△ Dog	Airfield		Aqueduct Tunnel	
Route Marker U.S.				Bluffs or Cliffs				Ditch or Canal	
Route Marker State		Prominent Peak		Prominent Ridge		Gaging Station		Aqueduct	

LAND STATUS LEGEND

Description	Printing Color	Description	Printing Color
Public Domain (Including National Resource Lands)	Yellow	Patented	Blank
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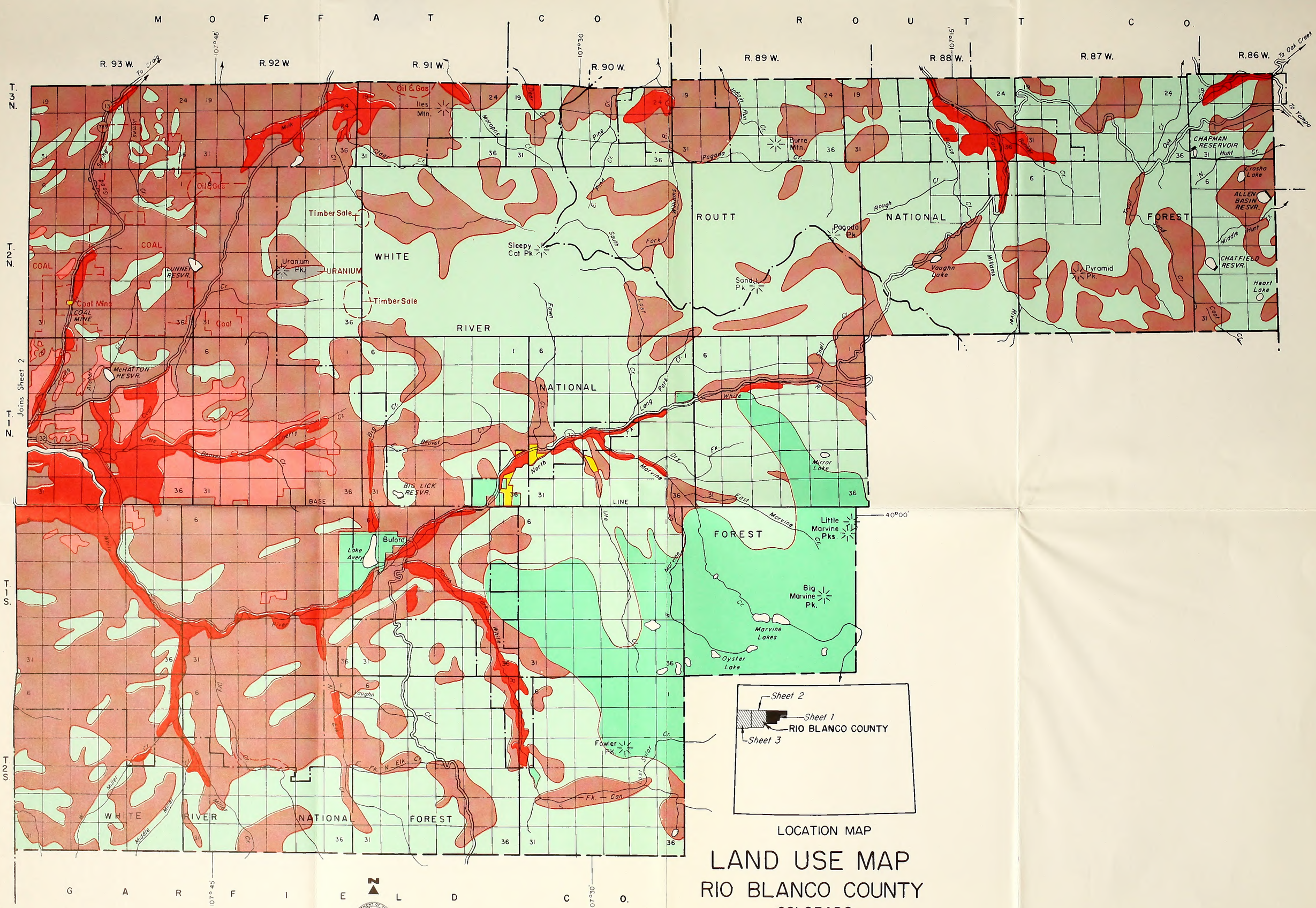
D & C Lands	Lt. Green	Reclamation and Water Power Projects Withdrawal	Warm Red
CBWR Cass Bay Wagon Road	Violet		
National Forest	Green	Powersite Withdrawal	Warm Red
		Federal Agency Protective Wdl.	Warm Red
National Parks and Monuments	Purple	AEC Withdrawal	Warm Red
Indian Lands or Reservation	Orange	Public Water Reserve	Warm Red
Military Reservation and Military Withdrawal	Red	D & C Lands Adm. by U.S. F.S.	Green
Wildlife Refuge	Blue Green	Radio & Air Facilities	Green
Bankhead - Jones L.U. Lands	Pink	Miscellaneous	Green
		* State Wildlife, Parks And Outdoor Recreation Areas	Blue

Land Use

4



LOCATION MAP

LAND USE MAP
RIO BLANCO COUNTY
COLORADO

AUGUST 1975

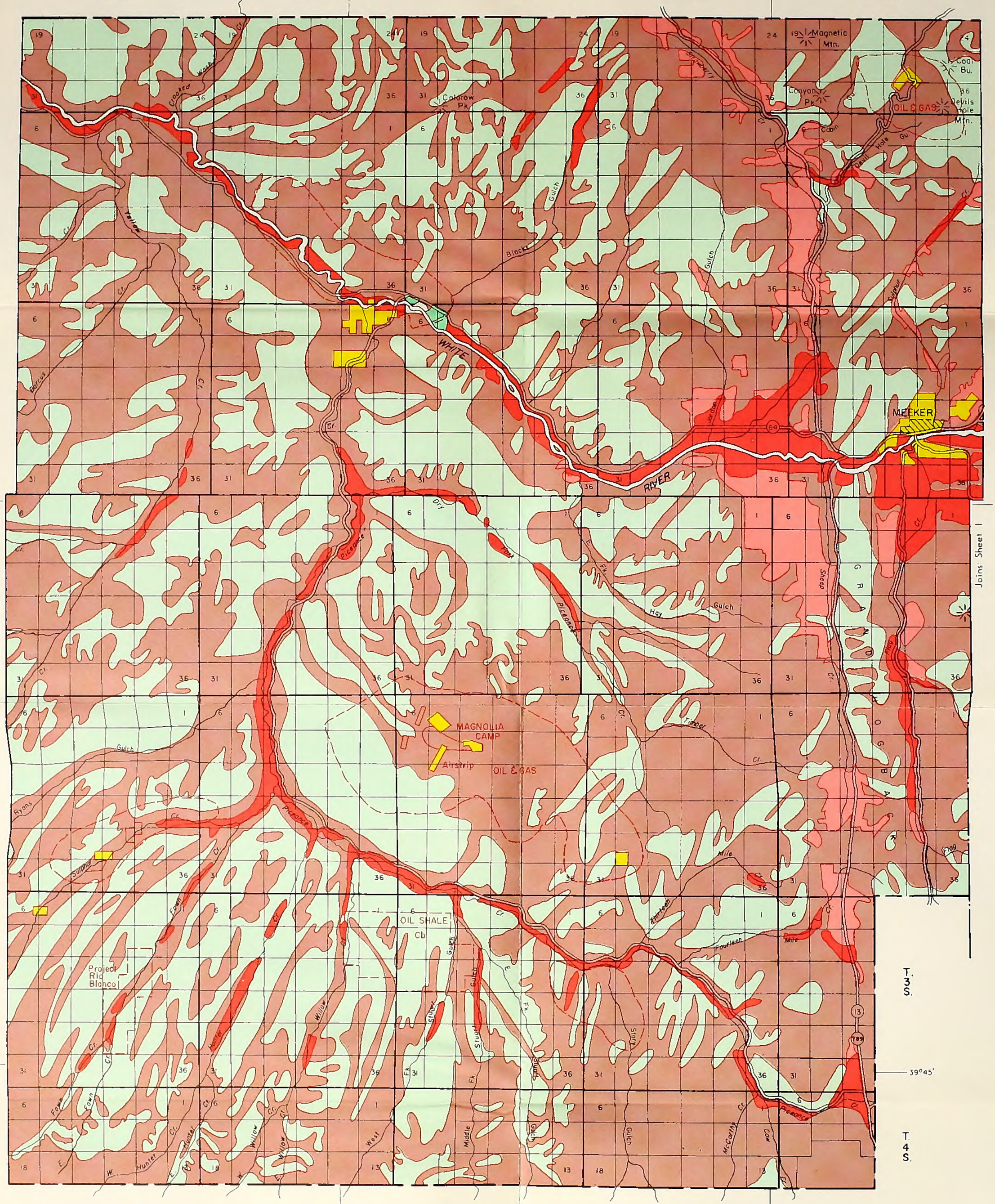
1 0 1 2 3 4 5 MILES

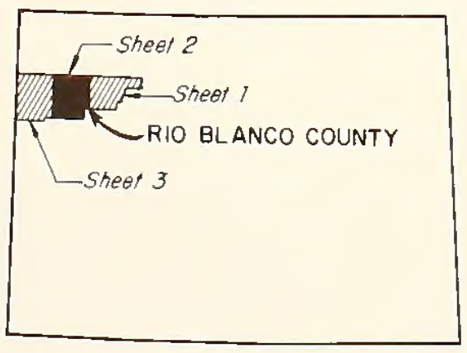
SCALE 1:126,720

SEE SHEET ONE OF MOFFAT COUNTY FOR LEGEND

ADAPTED FROM A MAP BY THE
U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

M7-E-22527-52
Sheet 1 of 3





LOCATION MAP

ADAPTED FROM A MAP BY THE
U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

LAND USE MAP
RIO BLANCO COUNTY
COLORADO

AUGUST 1975

1 0 1 2 3 4 5 MILES

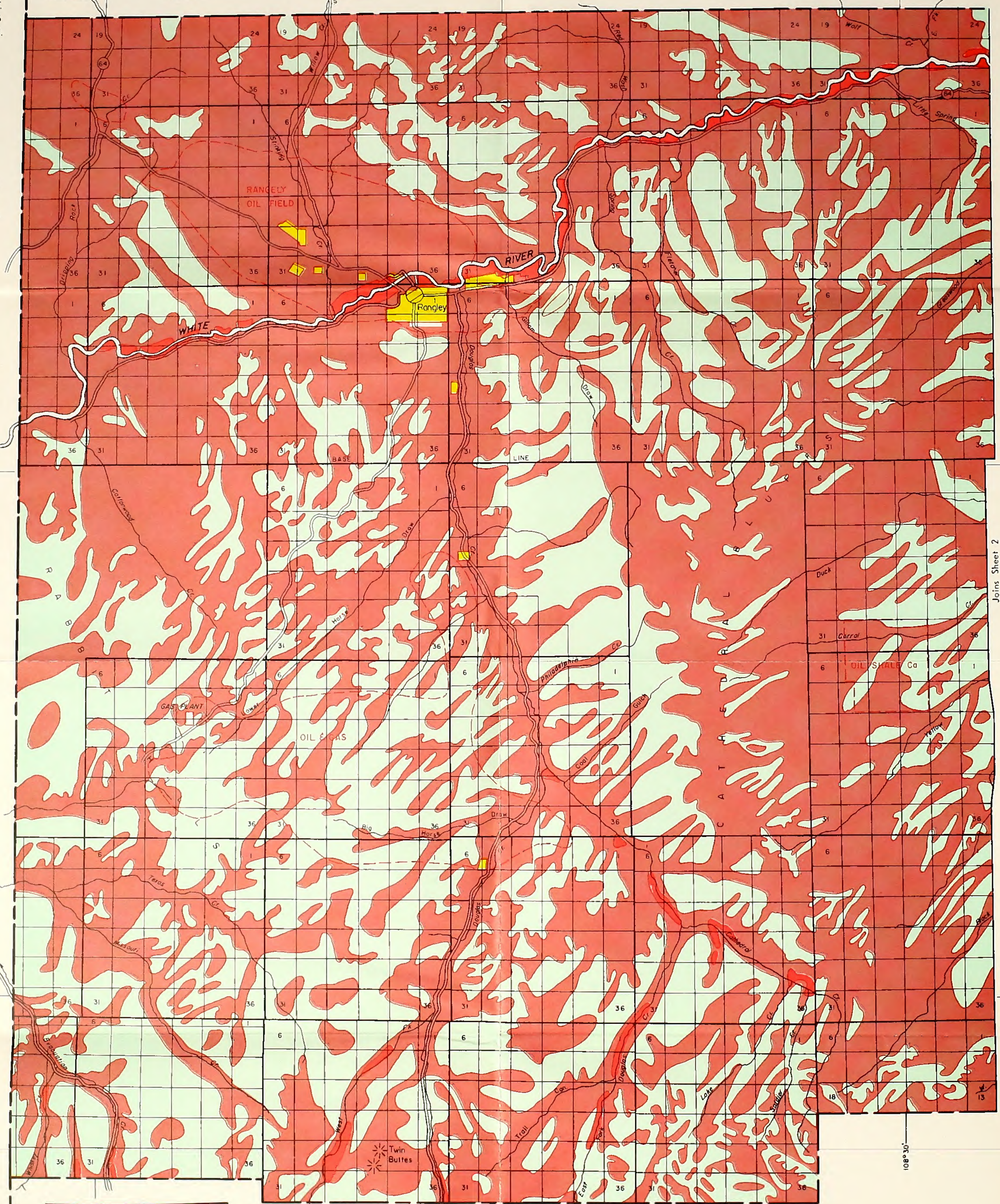
SCALE 1:126,720

SEE SHEET ONE MOFFAT COUNTY FOR LEGEND

M7-0-22527-52
Sheet 2 of 3

Land Use

5



LAND USE MAP
RIO BLANCO COUNTY
COLORADO

AUGUST 1975

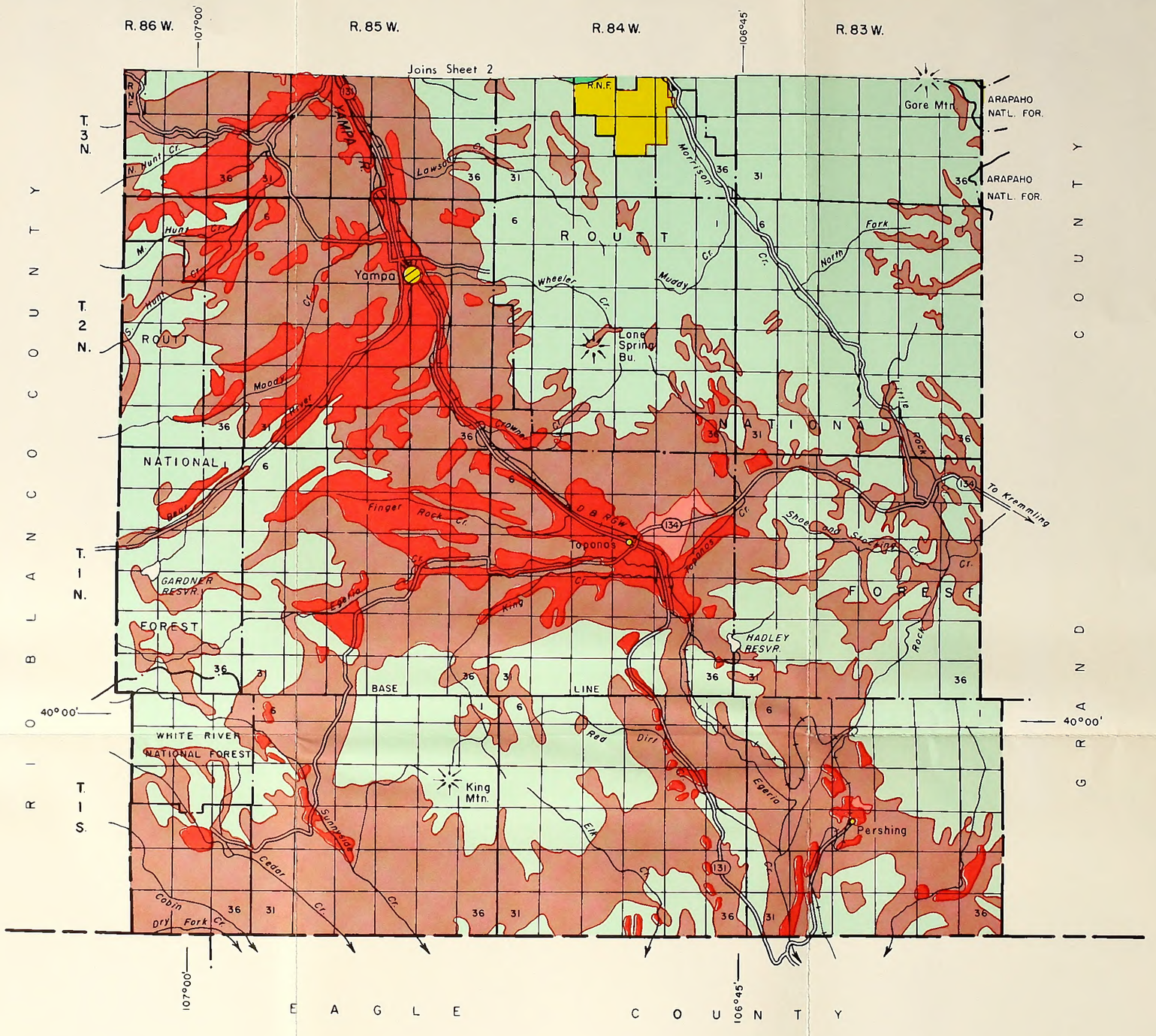
1 0 1 2 3 4 5 MILES

SCALE 1:126,720

SEE SHEET ONE - MOFFAT COUNTY FOR LEGEND

M7-0-22527-52
Sheet 3 of 3

ADAPTED FROM MAP BY THE
U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

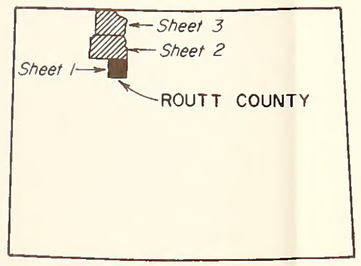


LAND USE MAP
ROUTT COUNTY
COLORADO

AUGUST 1975

1 0 1 2 3 4 5 MILES

SCALE 1:126,720



LOCATION MAP

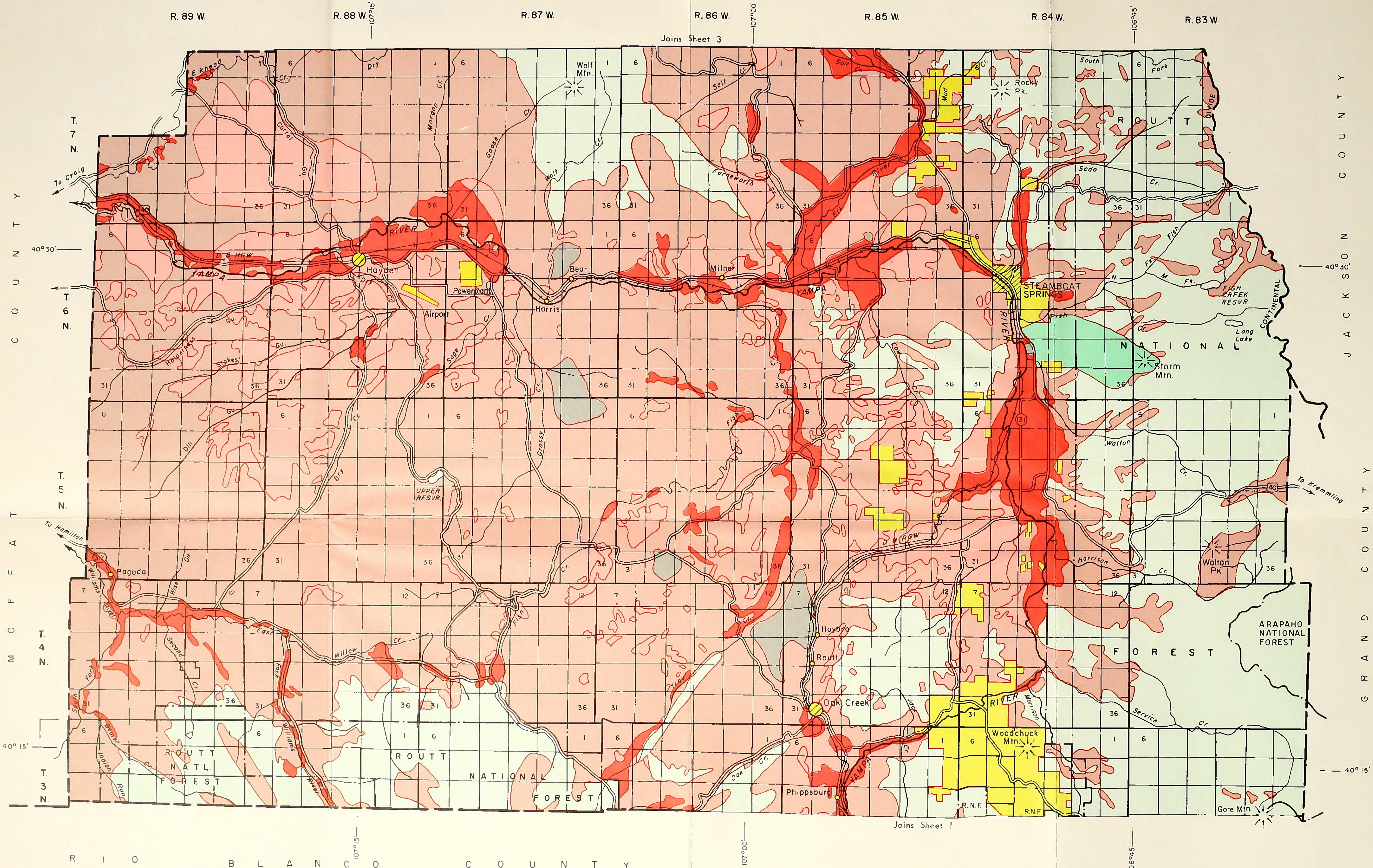
ADAPTED FROM A MAP BY THE DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

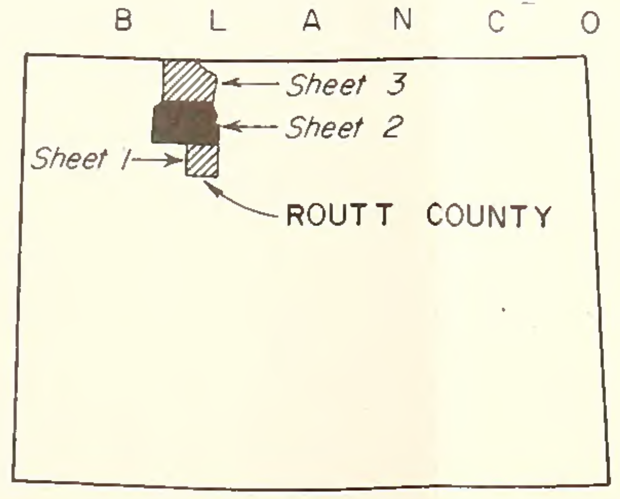
N

SEE SHEET ONE OF MOFFAT COUNTY FOR LEGEND

Land Use

6





LOCATION MAP

ADAPTED FROM A MAP BY THE
DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

LAND USE MAP
ROUTT COUNTY
COLORADO

AUGUST 1975

1 0 1 2 3 4 5 MILES

SCALE 1:126,720

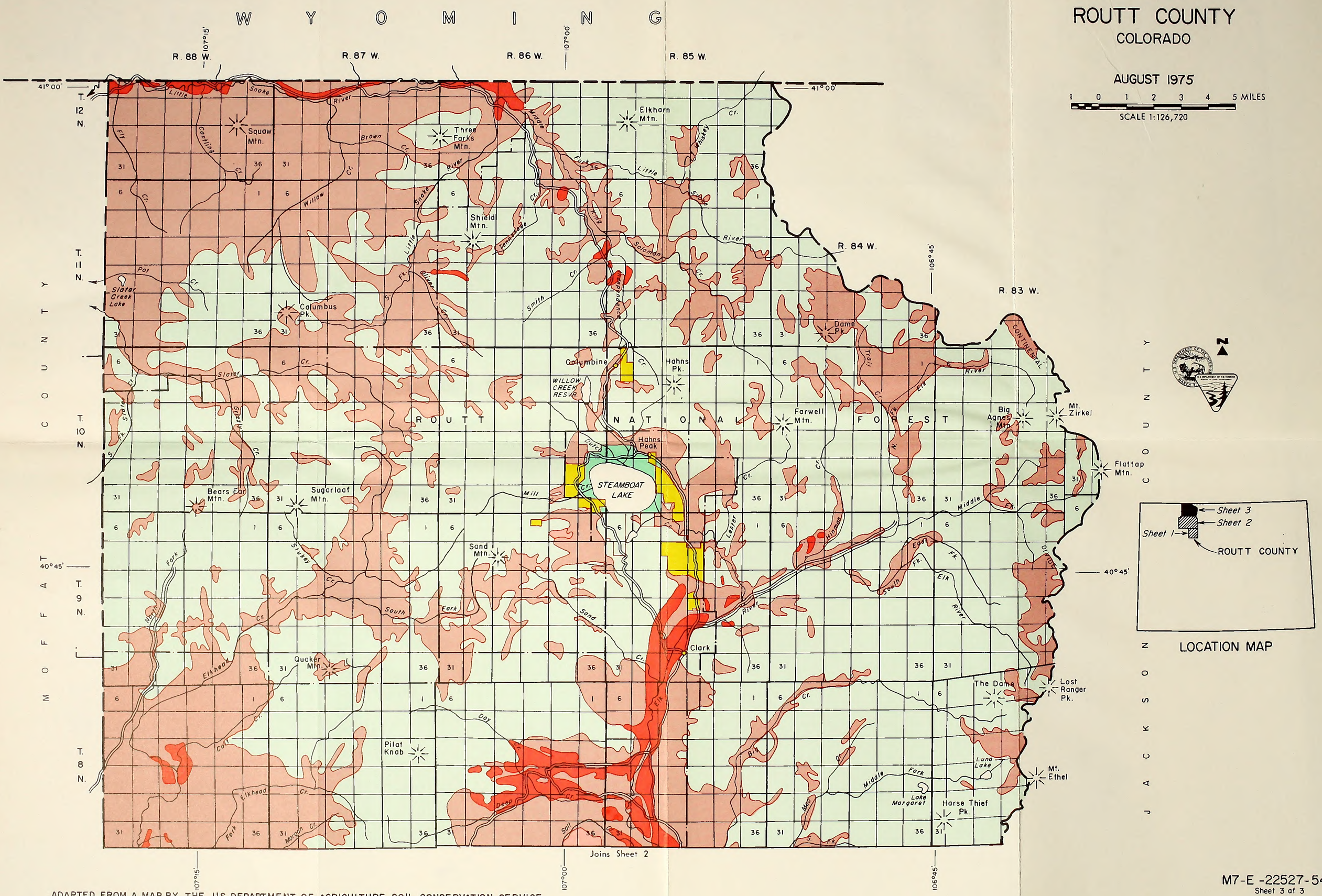
M7-E-22527-54
Sheet 2 of 3

LAND USE MAP
ROUTT COUNTY
COLORADO

AUGUST 1975

1 0 1 2 3 4 5 MILES

SCALE 1:126,720

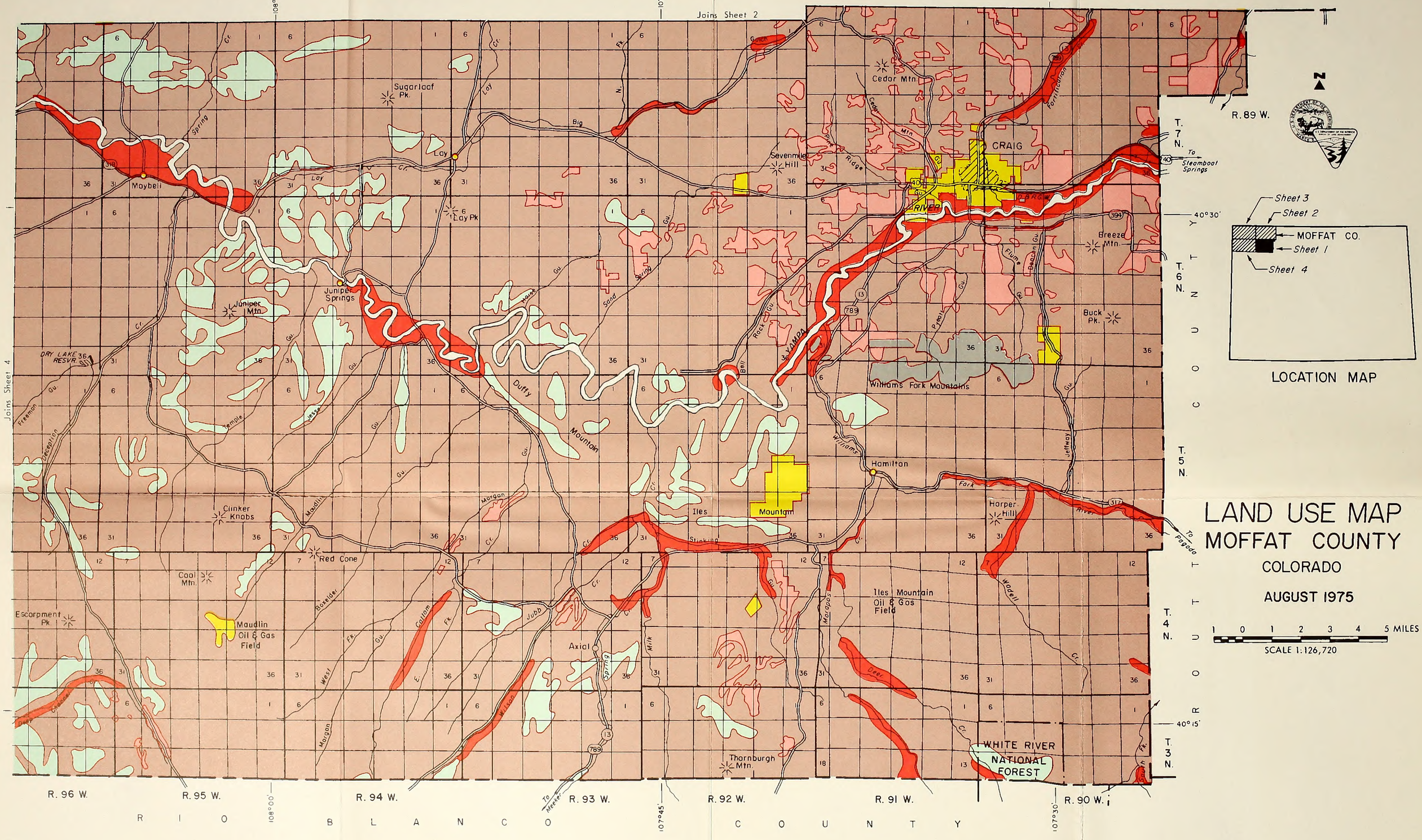


ADAPTED FROM A MAP BY THE U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

M7-E -22527-54
Sheet 3 of 3

Land Use

7



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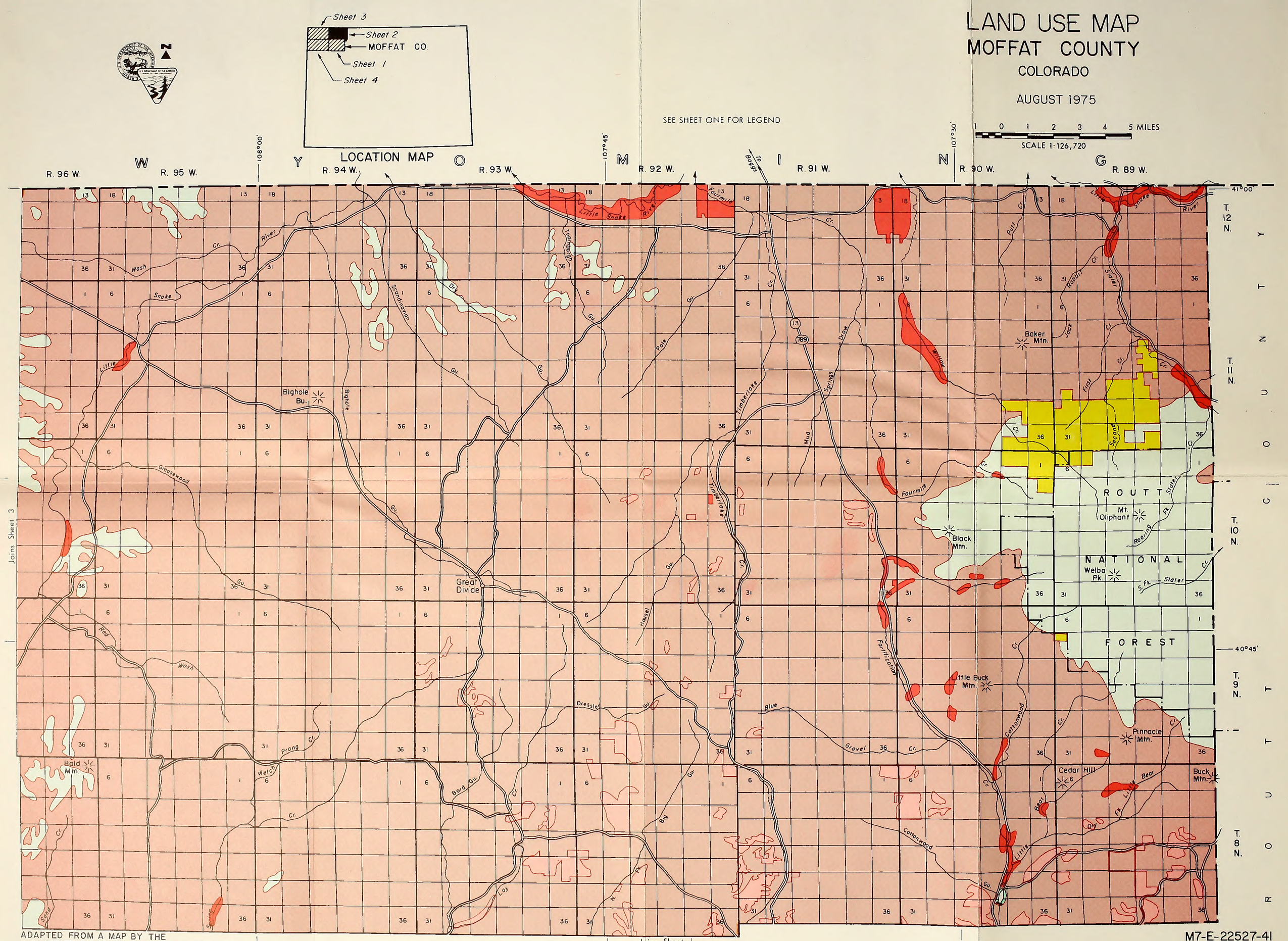
U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

M7-E-22527-41
Sheet 1 of 4

LAND USE MAP
MOFFAT COUNTY
COLORADO

AUGUST 1975



ADAPTED FROM A MAP BY THE
U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

M7-E-22527-41
Sheet 2 of 4

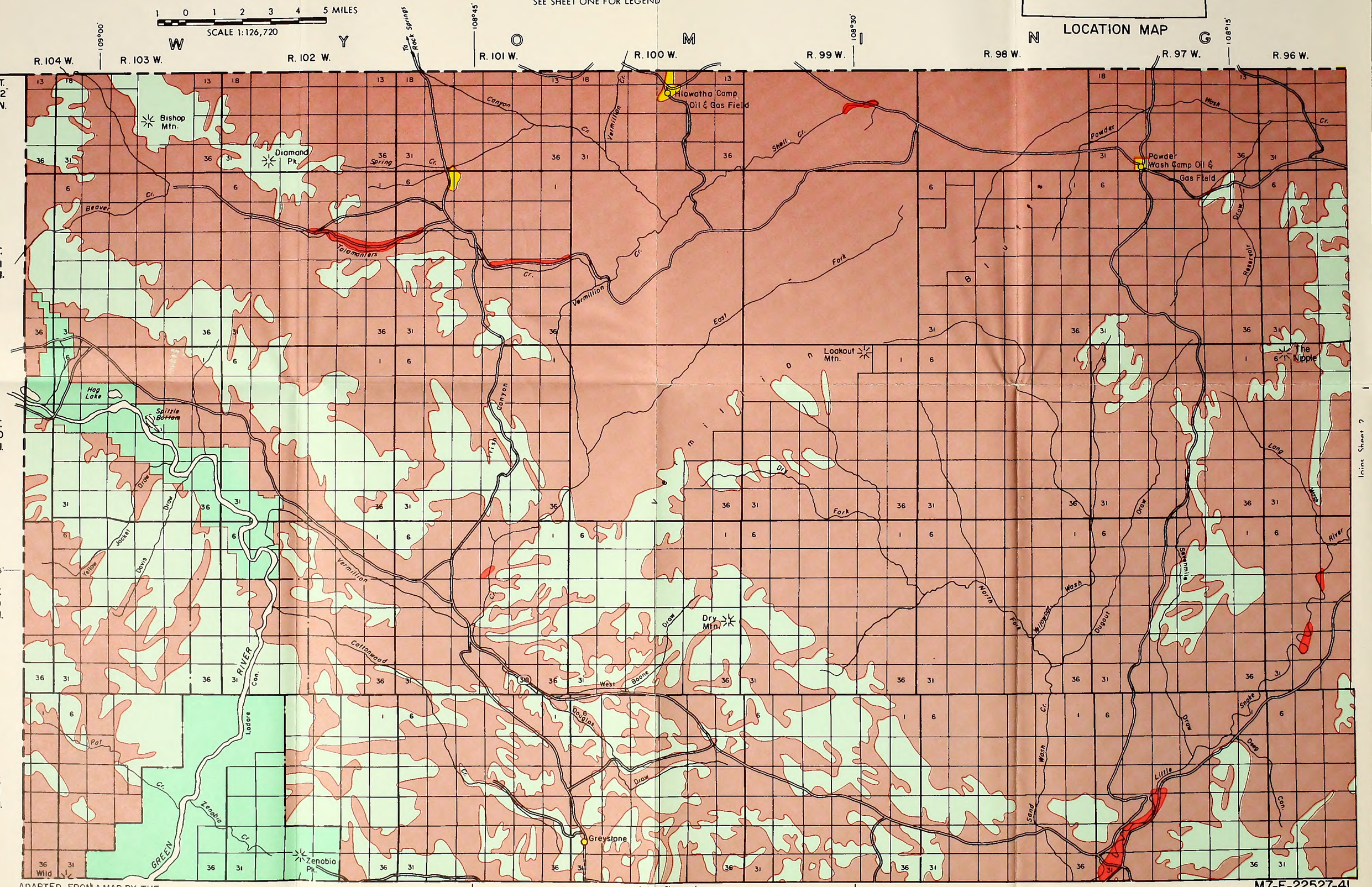
Land Use

8

LAND USE MAP
MOFFAT COUNTY
COLORADO

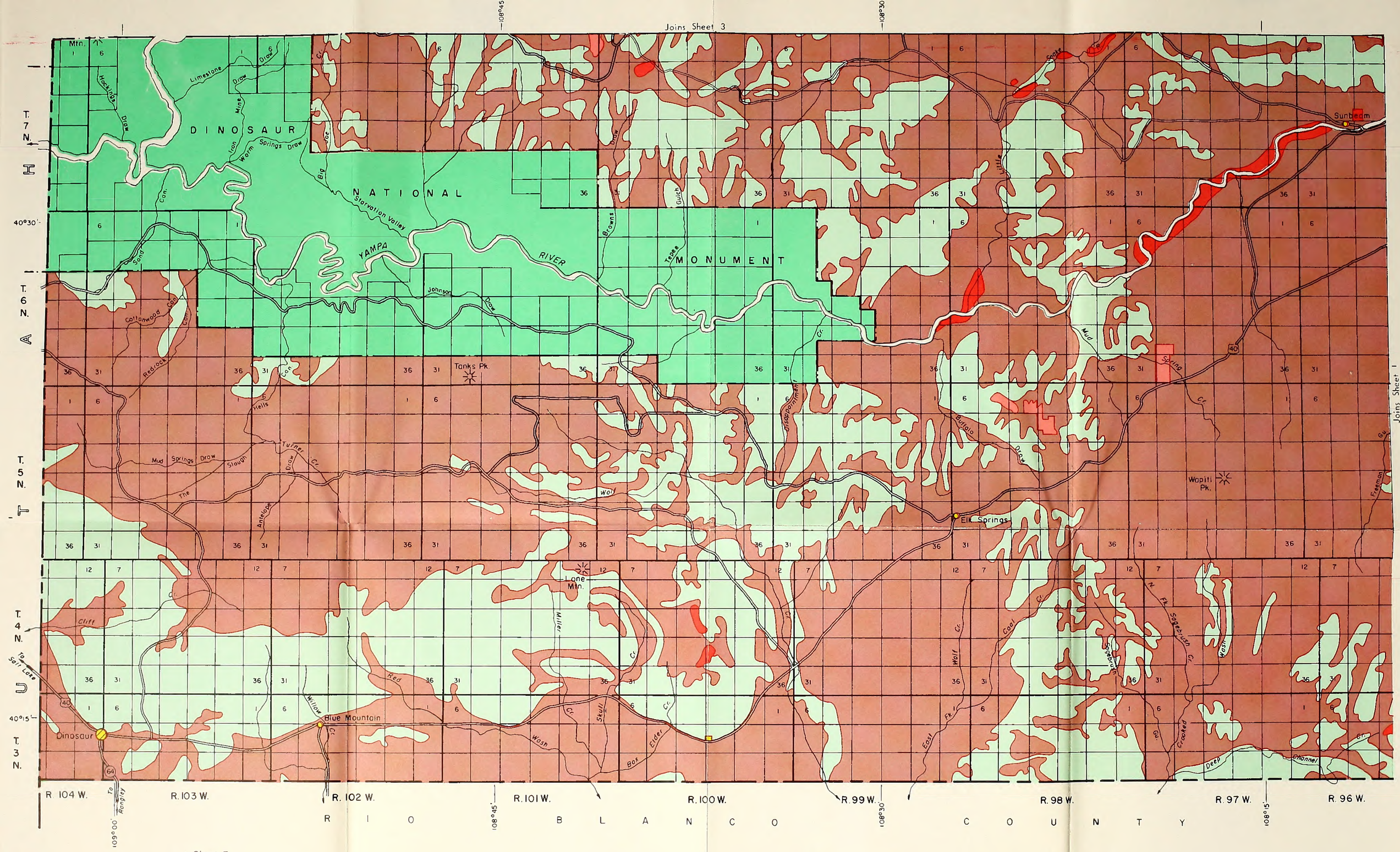
AUGUST 1975

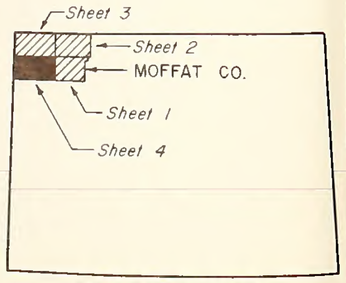
SEE SHEET ONE FOR LEGEND



ADAPTED FROM A MAP BY THE
U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

M7-E-22527-41
Sheet 3 of 4





LOCATION MAP

ADAPTED FROM A MAP BY THE
U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

SEE SHEET ONE FOR LEGEND

LAND USE MAP
MOFFAT COUNTY
COLORADO

AUGUST 1975

1 0 1 2 3 4 5 MILES

SCALE 1:126,720

M7-E-22527-41
Sheet 4 of 4

Land Use Map Legend

- Irrigated Cropland, Pastureland, and Hayland
- Non-Irrigated Cropland
- Rangeland and/or Non-Irrigated Pastureland
- Urban Areas - Includes Industrial, Commercial, Residential, Transportation, Airports and Subdivisions (including planned developments)
- Woodland
- Recreation Land
- Minerals Development Area
- Water Areas

R. 89 W. | R. 88 W. | R. 87 W. | R. 86 W. | R. 85 W. | R. 84 W. | R. 83 W.

Joins Sheet 3

T. 7 N. | T. 6 N. | T. 5 N. | T. 4 N. | T. 3 N.

MOFFAT COUNTY | JACKSON COUNTY | GRAND COUNTY

40° 30' | 40° 15'

107°15' | 107°00' | 106°45'

To Craig | To Hamilton | To Kremmling

Wolf Mtn. | Rocky Pk. | Storm Mtn. | Wolton Pk. | Gore Mtn. | Woodchuck Mtn.

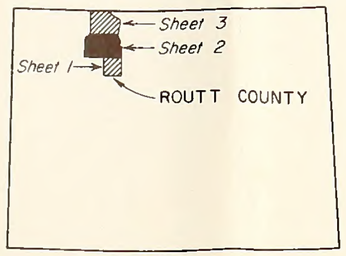
Hayden | Beor | Milner | Harris | Airport | Powerplant | STEAMBOAT SPRINGS | Pogoda | Hayden | Routt | Oak Creek | Phippsburg

YAMPA RIVER | D & RGW | Elkhead Cr. | Dry Cr. | Morgan Cr. | Coral Cr. | Goose Cr. | Wolf Cr. | Salt Cr. | Farnsworth Cr. | Elk River | Mad Cr. | South Fork | Sado Cr. | Fish Cr. | N. Fk. | M. Fk. | FISH CREEK RESVR. | CONTINENTAL DIVIDE | Long Lake | Holderness | Stokes | Gu. | Sage Cr. | Grassy Cr. | Cow Cr. | Dill Cr. | UPPER RESVR. | Wolton Cr. | Harrison Cr. | Wise Gu. | Williams River | East Fork | Second Fork | South Fork | Willow Cr. | Fish Cr. | Trout Cr. | Oak Cr. | Jack Cr. | Service Cr. | Indian Run | R.N.F.

ROUTT NATIONAL FOREST | ARAPAHO NATIONAL FOREST | ROUTT NATL. FOREST

Joins Sheet 1

RIO BLANCO COUNTY



LOCATION MAP

LAND USE MAP
ROUTT COUNTY
COLORADO

AUGUST 1975

1 0 1 2 3 4 5 MILES

SCALE 1:126,720

SEE SHEET ONE OF MOFFAT COUNTY FOR LEGEND

ADAPTED FROM AMAP BY THE DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

M7-E-22527-54
Sheet 2 of 3

Activity Location

9

U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

LEGEND

Code #	Firm (Lease Holder)	Lease #
1	Empire Energy Corp.	C-14737
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14	James C. Goodwin	C-[illegible]440
15	James C. Goodwin	C-0127926
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36	Peabody Coal (Seneca II)	C-088199
37	Peabody Coal (Seneca II)	C-086654
38	Peabody Coal (Seneca II)	C-0114093
39	Material Service Corp. (Seneca II)	C-081251
40	Material Service Corp. (Seneca II 279/13	C-081258
41	United Electric Coal Co.	279/13
42	Mapco Inc.	392/13
43	Utah International, Inc.	C-079641
44	Utah International, Inc.	C-07519
45	Utah International Inc.	C-07518
46	Utah International, Inc.	C-3506
47	Utah International, Inc.	C-0126480
48	Utah International, Inc.	C-813
49	Empire Energy Corp.	C-11738
50	Utah International, Inc.	257/13
51	Utah International, Inc.	206/13
52	Ferne M. James	C-064416
53	Pittsburgh & Midway Coal Mining Co.	266/13
54	Peabody Coal Co.	C-0125957
55	Empire Energy	C-11134
56	Gossard, Inc.	C-15618
57	Utah International, Inc.	C-0123475
58	Utah International, Inc.	C-0123476
59	Peabody Coal Co.	C-19885
60	Driftwood Oil Corp.: Peabody Coal (408/13)	384/13
61	Grassy Creek Coal Co.	323/13
62	Consolidated Coal Co.	C-245
63	George Brennan, Jr.	324/13
64	Charles C. Hughes	401/13
65	George Brennan, Jr.	325/13
66	George Brennan, Jr.	397/13
67	George Brennan, Jr.	333/13
68	Energy Fuels Corp. (Morgan)	C-9968
69	Pittsburgh & Midway Coal Mining Co.	265/13
70	Peabody Coal Co.	306/13
71	Mapco, Inc.	371/13
72	Page T. Jenkins; Ass'd. J. McDonough (379/13)	393/13
73	K. Parry: Ass'd. Paul S. Coupey (429/13)	364/13
74	Morgan Coal Co.	235/13
75	Peabody Coal	305/13
76	W.R. Grace	C-22836
77	Sunflower Corp.	394/13
78	Kemmerer Coal Co.	C-3606
79	Kemmerer Coal Co.	C-3605
80	Kerr-McGee Corp.	396/13
81	Victor P. Stabio	424/13
82	Robert H. Gleason & L.C. Craig	409/13
83	Robert H. Gleason & L.C. Craig	410/13
84	Erlon E. Nowell	432/13
85	George Brennan, Jr.	332/13
86	Superior Oil Corp.	331/13
87	Consolidation Coal Co.	C-1545
88	Consolidation Coal Co.	C-1546
89	Consolidation Coal Co.	C-093713
90	Consolidation Coal Co.	C-093714
91	Consolidation Coal Co.	C-093715
92	Consolidation Coal Co.	C-093716
93	Commonwealth Coal Co.	D-044240
94	American Fuels Corp.	C-076713
95	W.R. Grace	C-22837
96	W.R. Grace	C-22838
97	W.R. Grace	C-22839
98	Phillip A. Jensen & K.W. Miller	C-4275
99	Ember Mining Co.	C-0126997
100	Ember Mining Co.	C-0126998
101	Ember Mining Co.	C-0126999
102	Paul E. Riebold	C-028875
103	Reliable Coal Mining Co.	D-047201
104	L.C. Craig	C-0125366
105	Moon Lake Electric	C-8424
106	Moon Lake Electric	C-8425
107	Gordon Staley Coal	C-0126869
108	Moon Lake Electric	C-023703
109	Commonwealth Coal Co.	C-15846
110	Coal Fuels Corp.	C-22546
111	Moon Lake Electric	C-22654
112	Energy Fuels Corp.	C-22644
113	Halandras Brothers	C-22628
114	Energy Fuels	C-22677
115	Energy Fuels	C-22676
116	Empire Energy Corp.	C-14739
117	Peabody Coal Co.	C-22786

Lease numbers with a "C" or "D" prefix are federal leases; two part numbers (000/00) are state leases.

	Existing	Proposed Prior to EIS (May 1, 1975)	Additional Proposals (Since May 1, 1975)
Electric Transmission Lines (TL)			
Pipelines (PL) with Type, Size, & Owner (if known)			
Roads (RD)			
Railroad Spur (RR)			
Major Power Substations	SUB STA		
Recommended Corridors with Suggested Uses (Tentatively Approved by Fed. & Co. Agencies & Industry)			
Preference Right Lease Application			
Competitive Lease Application			
BLM proposed coal leasing areas			

STUDY REGION MAP

Geologic Map of
Northwest Colorado

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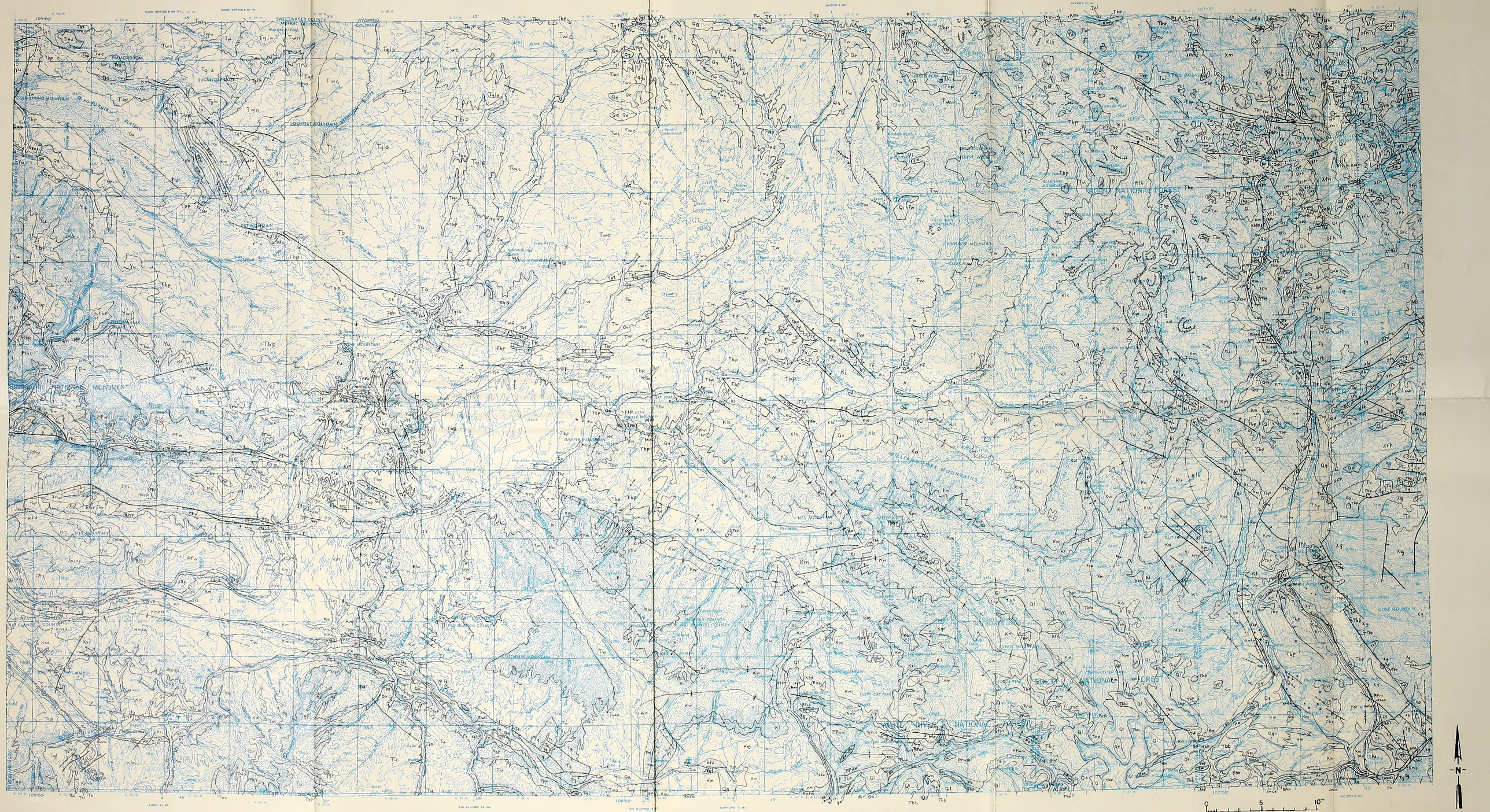

GEOLOGIC MAP OF NORTHWEST COLORADO

EXPLANATION

(Refer to Appendix D for Deacriptions of Geologic Formations)

UNCONSOLIDATED NOLOCENE DEPOSITS

Qa Alluvium

Qe Eolian deposits

Ql LANDSLIDE DEPOSITS

UNCONSOLIDATED PLEISTOCENE DEPOSITS

Qg Young gravels

Qd Young glacial drift

Qgo Old gravels and alluviums

Qdo Old glacial drift

Tg PREGLACIAL GRAVEL (PLIOCENE)

Tbp BROWNS PARK FORMATION (MIOCENE)

Tbb BASALT OF BIMODAL VOLCANIC SUITE (PLIOCENE AND MIOCENE)

* Volcanic neck

Tui UPPER TERTIARY INTRUSIVE ROCKS (PLIOCENE AND MIOCENE)

+++ Dike or sill

Tv VOLCANIC ROCKS (PLIOCENE, MIOCENE, AND OLIGOCENE)

Tos OLIGOCENE(?) SEDIMENTARY ROCKS

Tb BRIDGER FORMATION (EOCENE)

Tu UINTA FORMATION (EOCENE)

Tg GREEN RIVER FORMATION (EOCENE)

Tgp Parachute Creek Member

Tgl Lower part

Tglm Laney Member

Tgt Tipton Tongue

Tglu Luman Tongue

WASATCH FORMATION (EOCENE)

Twc Cathedral Bluffs Tongue

Tw Main body

Twn Niland Tongue

Tf PORT UNION FORMATION (PALEOCENE)

ONIO CREEK FORMATION (PALEOCENE)

Two WASATCH AND OHIO CREEK FORMATIONS

Kl LANCE FORMATION (UPPER CRETACEOUS)

Kls LEWIS SHALE (UPPER CRETACEOUS)

Kmv MESAVERDE GROUP UNDIVIDED (UPPER CRETACEOUS)

Kmvw Upper part

Kw Williams Fork Formation

Ki Iles Formation

Km MANCOS SHALE (UPPER AND LOWER CRETACEOUS)

Kmfm Frontier Sandstone and Mowry Shale Members and intervening shale

Kd DAKOTA SANDSTONE (LOWER CRETACEOUS)

Jm MORRISON FORMATION (UPPER JURASSIC)

Mzu MESOZOIC ROCKS UNDIVIDED

Kfd Frontier Sandstone and Mowry Shale Members of Mancos Shale, and Dakota Sandstone

KJdm Dakota and Morrison Formations

KJde Dakota, Morrison, Curtis, and Entrada Formations

KJds Dakota, Morrison, and Sundance Formations

Jmc Morrison and Curtis Formations

Jmce Morrison, Curtis, and Entrada Formations

Jmec Morrison, Curtis, Entrada, and Carmel Formations

Jms Morrison and Sundance Formations

JTRmg Morrison, Curtis, Entrada, and Glen Canyon Formations

JTRg GLEN CANYON SANDSTONE (LOWER JURASSIC AND UPPER TRIASSIC)

TRc CHINLE FORMATION (UPPER TRIASSIC)

TRm MOENKOPI FORMATION (LOWER TRIASSIC)

TRr CHINLE AND CHUGWATER FORMATIONS

TRPr BELL SPRINGS MEMBER OF NUGGET SANDSTONE, POPO AGIE AND JELM FORMATIONS, AND REMNANTS OF RED PEAK FORMATION ON WEST SIDE OF PARK RANGE NEAR STATE LINE

TRPcs CHINLE AND STATE BRIDGE FORMATIONS

Pp PARK CITY FORMATION (PERMIAN)

TRPcp CHINLE, MOENKOPI, AND PARK CITY FORMATIONS

PIPwm WEBER SANDSTONE AND MAROON FORMATION

PIPw WEBER SANDSTONE

IPm MINTURN FORMATION (PENNSYLVANIAN) OR MORGAN FORMATION (PENNSYLVANIAN)

IPe EAGLE VALLEY EVAPORITE (PENNSYLVANIAN)

Mr Mississippian rocks

MDЄr MISSISSIPPIAN, DEVONIAN, AND CAMBRIAN ROCKS

MЄr MISSISSIPPIAN AND CAMBRIAN ROCKS

Єr Cambrian rocks

Єs SAWATCH QUARTZITE (CAMBRIAN)

Yg GRANITIC ROCKS (PRECAMBRIAN Y)

Yu UINTA MOUNTAIN GROUP (PRECAMBRIAN Y)

PRECAMBRIAN X

Xg Granitic rocks

Xm Mafic intrusive rocks

Xfh INTERLAYERED FELSIC AND HORNBLENDIC GNEISSES (PRECAMBRIAN X)

Xb BIOTITIC GNEISSES AND MIGMATITE (PRECAMBRIAN X)

Xq RED CREEK QUARTZITE (PRECAMBRIAN X)

Contact

Fault—dotted where concealed, bar and ball on downthrown side

Thrust fault—dotted where concealed. Sawteeth on upper plate

Precambrian shear zone

Crest of anticline—dotted where concealed

Trough of syncline—dotted where concealed

Overturned syncline

Line of steep dip in monocline—dotted where concealed

Concealed monocline

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